



LiveRoof[®] BRAND

Natural Function
Natural Beauty



PREVEGETATED INVISIBLE
MODULAR GREEN ROOF 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



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.



Subterranean Module

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



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.



Other green roof systems may look like this during the dormant season.

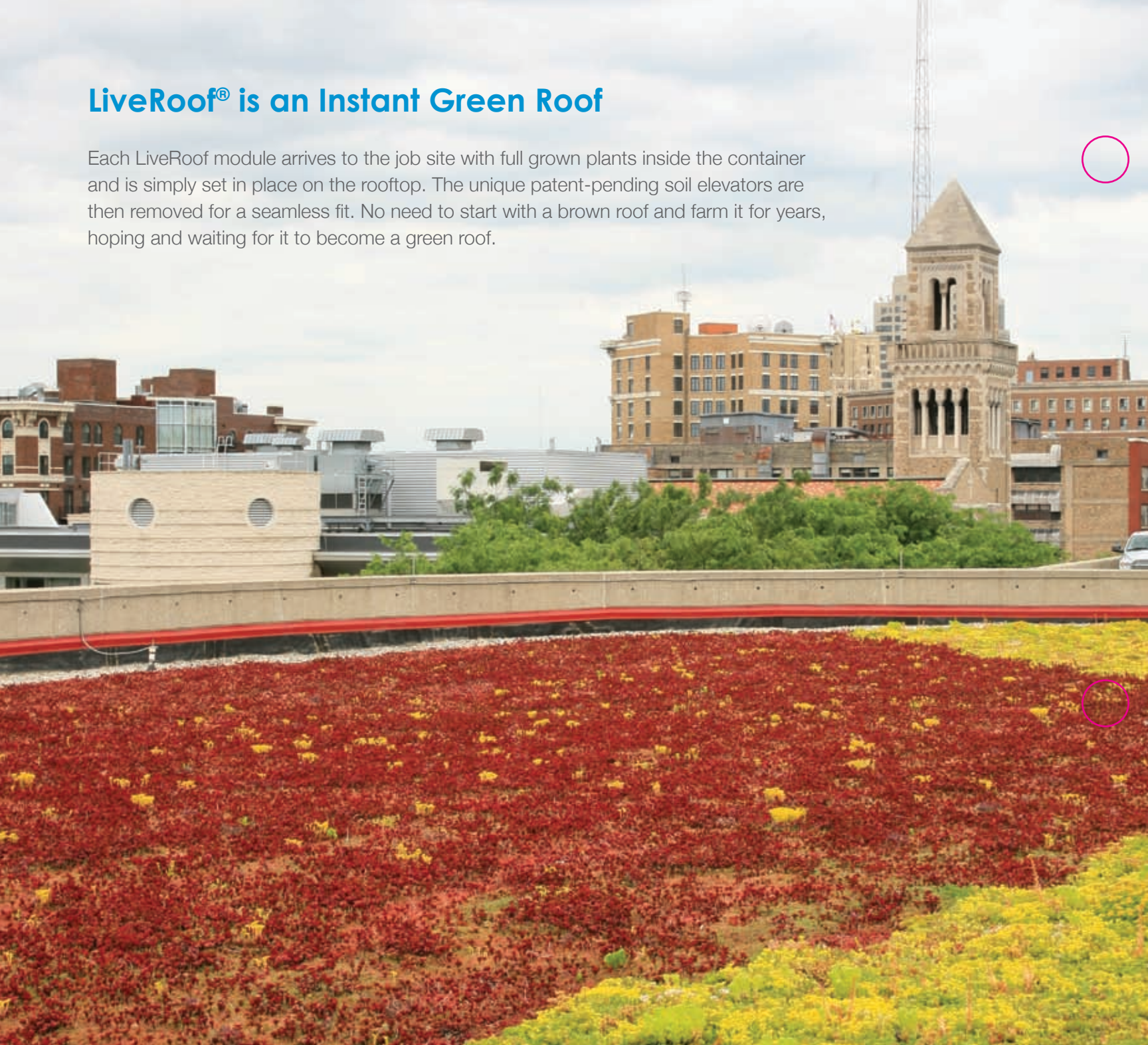


Even during winter dormancy, LiveRoof is naturally beautiful.



LiveRoof® 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. 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.



LiveRoof® Invisible Modular Green Roof Systems

LiveRoof Standard

Soil: Appx. 4 ¼" deep.

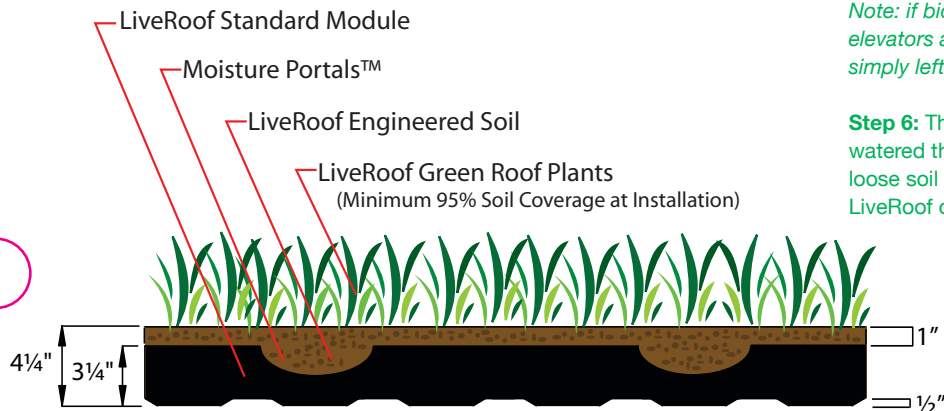
Module Size: 1' x 2' x 3 ¼"

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 ¼" 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 screeted off.

Step 3: LiveRoof Plants are grown to maturity approximately 1 inch above the LiveRoof module. In the LiveRoof Lite System plants are approximately ¾" above the module and in the LiveRoof Deep System they are approximately 2 ¾" 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.





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 inside each module 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.

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.

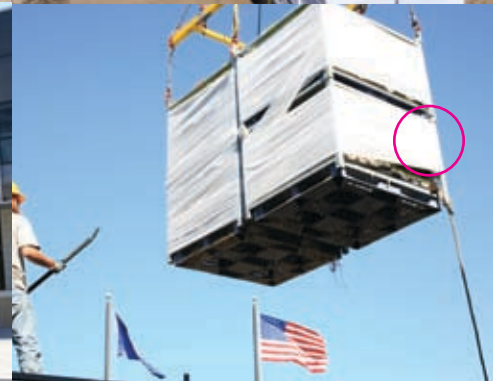
No Ugly Seams

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.





LiveRoof® Brings a Multitude of Advantages

	LiveRoof System	Other Systems
Instantly Mature/Instantly Beautiful Delivered 95% prevegetated	Always	No
Successful Track Record	Yes	Variable
Maintenance Saves years of intensive and costly rooftop maintenance	Extremely Low Maintenance & Predictable Costs	High Maintenance & Unpredictable Costs
Weed Prevention Established planting is the best means for preventing weed encroachment	High Level of Weed Prevention	Low Level of Weed Prevention
Resistance to Wind Erosion	Optimal Day of Installation	Minimal Until Established
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	Sub-Optimal
LEED Points Enhances LEED ratings in many categories	Maximum	Variable
Backed by Team of Leading Horticulturists	Yes	No
Installed By Certified Installers	Yes	Variable
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	Unpredictable Costs
Total System Cost Over first five years	Predictable No Surprises	Variable



This beautiful LiveRoof was just installed and is receiving a thorough “watering in” to complete the installation process.



The LiveRoof Licensed Grower Network is composed of the horticultural industry's leading growers, collectively bringing you more than 400 years of horticultural experience and expertise.

Call your local grower to discuss your specific green roof project and to receive our 52 page informative catalog. Some topics include:

Specifications

Architecture & Engineering

LiveRoof Benefits

LEED Interface

Answers to Common Questions

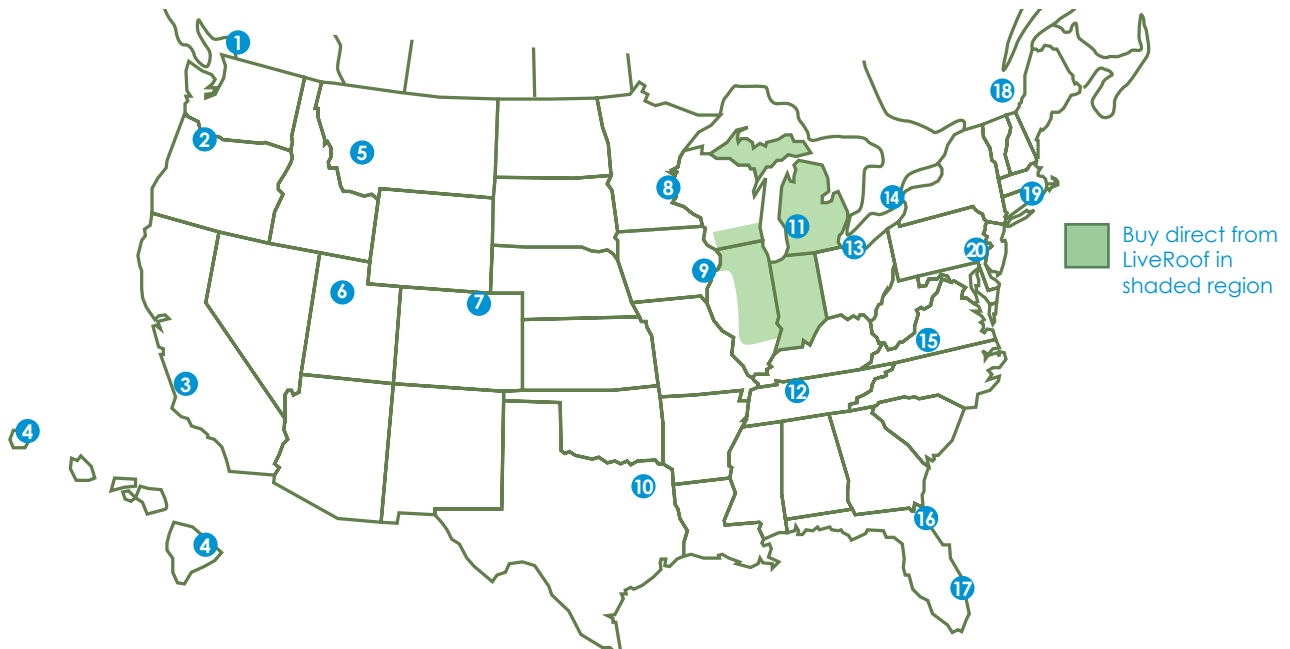
Warranty Information

LiveRoof® Grower 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.

- | | | | |
|--|---|--|---|
| <p>1. N.A.T.S. Nursery Ltd.
Langley, BC, Canada
Michael Campbell
(604) 530-9300</p> | <p>6. J&J Nursery
Layton, UT
Jim Webster, (801) 949-7291
Brett Milliken, (801) 544-1211</p> | <p>11. LiveRoof® LLC
<i>Subsidiary of Hortech, Inc.</i>
Spring Lake, MI
Sales Team
(800) 875-1392</p> | <p>16. Reflections of Nature
Yulee, FL
James Loper, (904) 225-9915,
cell (904) 887-8266
Angie Loper, (904) 415-3893</p> |
| <p>2. GreenFeathers Inc.
Cornelius, OR
Bob Adams, (503) 357-2904
Cell (503) 747-9382
Mike Wisshack (503) 357-2904</p> | <p>7. Colorado Green Roofs and Walls, LLC represented by R Design Group
Fort Collins, CO
Gene Pielin, Beth Beegles
(970) 212-0620
Ransom Beegles,
Ryan Manning
(970) 223-4769</p> | <p>12. Southeast Green Roofs,
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Owen Slaughter, (615) 290-3400
Andy Sudbrock, (615) 799-8719</p> | <p>17. Coastal Landscape & Maintenance Inc. West
Palm Beach, FL
Susan Cone, (561) 640-5930,
cell (561) 719-0964</p> |
| <p>3. Native Sons Wholesale Nursery, Inc. represented by Florasource, Ltd.
Arroyo Grande, CA
David Fross,
(805) 481-5996 x12
Jennifer Scarano,
(805) 481-5996 x13
Sales, Tom Hawkins
(949) 498-1131
<i>Northern CA Sales,</i>
Mike Connelly (831) 422-3175</p> | <p>8. Bachman's Inc.
Minneapolis, MN
Doug Danielsen
(800) 525-6641 OR
(651) 463-6465</p> | <p>13. Corso's Perennials
Sandusky, OH
Dan Cartell,
(216) 408-9611
Gus Corso,
(888) 816-8608 x 219</p> | <p>18. Climax Urban Greening, Inc.
Château-Richer, QC
Denis Faucher, (418) 930-9148</p> |
| <p>4. Hawaiian Sunshine Nursery
Waimanalo & Hilo, HI
Brian Leong, (866) 714-7837
David Fell, (808) 959-4088</p> | <p>9. Roof Top Sedums
Davenport, IA
Teresa Nelson, (563) 676-9775
Roxanne Nagel, (563) 505-7032</p> | <p>14. LiveRoof Ontario, Inc.
<i>Subsidiary of Hillen Nursery, Inc.</i>
represented by Caradoc Green Roofs
Mount Brydges, ON
Kees Govers, (519) 245-4039</p> | <p>19. Prides Corner Farm
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Janet Huhtala,
(800) 437-5168, x3029
Ray DeFeo, (860) 234-6723</p> |
| <p>5. Summit Valley Turf Farms
Whitehall, MT
Charissa Wagner
(406) 287-2268</p> | <p>10. Texas Green Roofs
Lindale, TX
Ed Borger, (903) 520-9333
Randy Jackson,
(800) 777-9849 x213,
cell (903) 571-9757</p> | <p>15. Riverbend Nursery
Riner, VA
Jim Snyder,
(800) 638-3362 x101
Kelly Connoley-Phillips,
(800) 638-3362 x103
Mike Semones, (540) 908-1746</p> | <p>20. Creek Hill Nursery
Leola, PA
Paul Cook, (717) 723-0855
Ron Strasko, (717) 556-0000</p> |





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A Subsidiary of Hortech, Inc.

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