

Thank you for your interest in the presentation made by Mike Perry on "Green Roofs in the Residential Market".

The PowerPoint presentation made on September 8, 2008 was a pictorial showing many examples of green roofs throughout the United States in addition to other examples from other countries, many of which Building Logics constructed.

If you need further information about the presentation, please contact

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# ENVIROTECH GR

## Vegetation POD

Our time tested, proven green roof vegetation methodology is now available in convenient, easy to install PODs; allowing greater installation flexibility to owners, architects, designers and landscape architects.

- Light Weight
- Cost Effective



- Unlimited Drainage
- Pre-grown, Pre-Vegetated or Assembled on Site
- Easily Moved for Membrane Access
- Eliminates Potential for Plantings to Become Root Bound
- Allows Plants to Spread as Nature Intended
- Additional Water Storage (Optional)
- Available for Sloped Roofs up to 45 Degrees



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# PERFORMANCE SPECIFICATIONS

## ENVIROTECH GR Vegetation POD

Injection molded HDPE, heavy weight green roof tray consisting of a patent pending modular containment system with geotextile filter fabric, growing media and a variety of specified vegetation. Additional water storage layer is optional. With steep slope mounting system, PODs can be installed on slopes up to 45° (12/12).



**COMMERCIAL**



**SLOPED**



**RESIDENTIAL**

### Composition & Technical data:

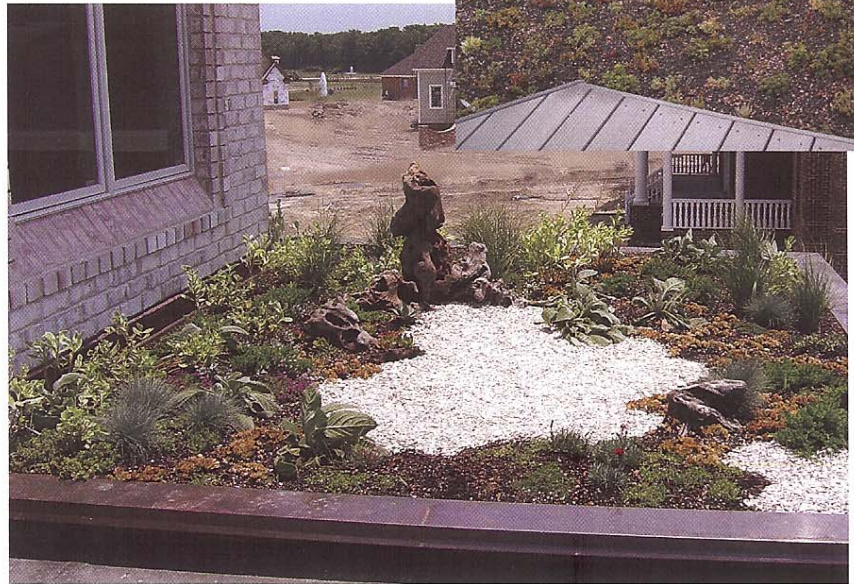
POD Dimension:	20" x 10" x 2"
Saturated Weight:	10 lb/sq ft
Growing Media: ASTM-D422	
Void Rating at Field Capacity (0.333 bar)	≥15% (vol)
Moisture Content at Field Capacity	≥12% (vol)
Maximum Water Capacity	≥35% (vol)
Density at Maximum Water Capacity	≥62 lb/ft <sup>3</sup>
Saturated Hydraulic Conductivity	≥1.5 in/hr, and ≤ 15.0 in/hr
Volatile Fraction (organic matter)	≤ 10% (dry wt)
pH	5.5 - 7.9
Soluble Salt	≤ 0.30 mmhos/cm (1:20 dilution)
Filter Fabric	Needle punched non-woven polypropylene geotextile fabric. ASTM-D4491
Permittivity	2.00 sec-1
Permeability:	0.25 cm/sec
Vegetation:	Sedum mixes and custom varieties, see web site for USDA Zone selection.
Water Storage: (optional)	Rock wool; 6.25 lb & .75 gal/sq ft



**T**he EnviroTech GR (green roof) system incorporates a high-grade polymeric bitumen sheet with plasto-elastic properties. It is modified with age stabilizing amorphous polyalphaolefin (APAO). These patented membranes can incorporate the root barrier, water retention system, drainage layer and waterproofing system all in one. The EnviroTech system provides the most lightweight and easily installed green roof system in the industry. Its advanced technology provides superior performance qualities in extensive green roofing systems.

## Benefits of a Green Roof

- Conserves energy
- Improves air quality
- Provides Insulation
- Extends the life of the roof- Minimizes UV and Temperature Impact
- Suppresses noise, reducing interior sound levels
- Dramatically reduces storm water run-off and flow rate
- Environmentally friendly
- Reduces cost over the life of the roof
- Restores ecological and aesthetic value to Open Space
- Aesthetic and Psychological Benefits of Green Roofs



The EnviroTech roof system was developed to provide one of the lightest, easiest to install, economical and most efficient green roofs on the market. The waterproofing membrane was specifically designed for green roof applications. It has passed the demanding European FLL test standards for root resistance in green roof applications. The Famogreen RET system is the only system in the world that allows attachment of all the various components including plants, growing medium, etc., to the building structure. The membrane itself torches down to the deck and is designed to encourage the plantings to send down roots, in search of moisture in the gel packs, through a reinforcing scrim heat sealed to the membrane. Once matured the entire roof assembly is solidly attached to the building providing the maximum protection from wind blow off. This system utilizes the basic natural approach of growing plants and incorporates the latest in technological developments in roofing membrane design and manufacture.





**Fambit P3, P4 & P5** is a high-grade polymeric bitumen sheet, modified with age stabilizing amorphous polyalphaolefin (APAO). Polyester reinforcing provides superior strength and flexibility. Superior performance of the modified bitumen compound makes this membrane extremely puncture resistant and provides excellent weather resistance and long term performance. It can be used as an inner-ply or a high performance flashing system.

**Famogreen CU P4 & P5** is a high-grade polymeric bitumen sheet with plasto-elastic properties. It is modified with age stabilizing amorphous polyalphaolefin (APAO). The unique thermally bonded copper/polyester inlay provides both strength and root resistance making this superior quality membrane a first choice in vegetated roofing applications. The low temperature flexibility along with its heat stability qualities allow this membrane to be used in both intensive and extensive Green Roof Systems. This heat welded membrane can be used in the field of the roof and/or as a flashing membrane.

**Famogreen RET CU P4 & P5** is a high-grade polymeric bitumen sheet with plasto-elastic properties. It is modified with age stabilizing amorphous polyalphaolefin (APAO). This patented membrane incorporates a root barrier, water retention system, drainage layer and waterproofing system all in one. This membrane provides the most lightweight and easily installed green roof system in the industry. Its advanced technology provides superior performance qualities in extensive green roofing systems.

**EnviroTech 4200** represents the highest level of performance available in the roofing industry today. This modified bitumen membrane blends superior quality asphalt with SBS/SIS/SEBS polymers to insure outstanding performance characteristics. The uniquely formulated composite reinforcing scrim provides dimensional stability and ultra-rupture resistance. The heat stability and low temperature flexibility makes this membrane ideal for any geographical location. It can be installed in multiple ply configurations and as a single ply for new construction or restoration.

