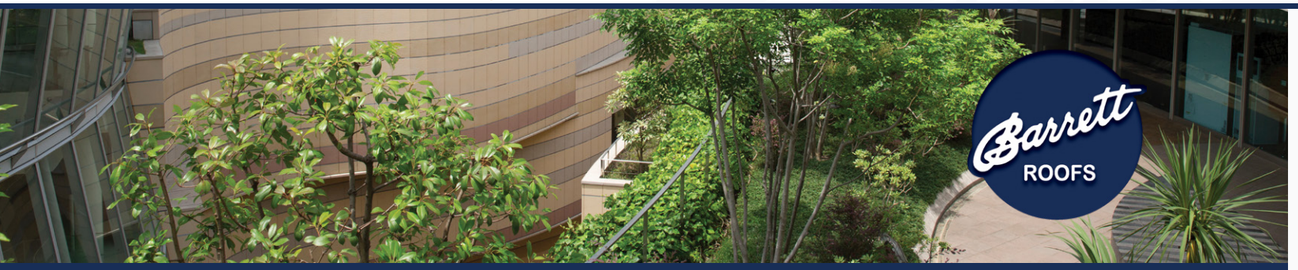
Greenroof-Roofscapes®

Complete Waterproofing Systems for Green Roof + Landscape Assemblies



Systems for Green Roof & Landscape Assemblies

Pictured: Greenroof-Roofscapes® with RamTough 250 Hot Rubberized Asphalt Waterproofing System installed on the Rooftop Terrace of the Baltimore Convention Center in 2010.

The roof is often a forgotten element on most buildings.

When designed and built as a multi-functional element, a roof space can be made cost effective, provide significant environmental contributions, and create aesthetically pleasing, versatile, and usable outdoor spaces.

Barrett's **Greenroof -Roofscapes®** are sustainable roofing & landscaping systems that offer the owner and society many environmental benefits, low lifecycle costs, and government incentives.

Greenroof-Roofscape® systems are designed around inter-dependent components which function as a natural vegetation habitat, encouraging biodiversity. These eco-centric assemblies can turn any space into a simple extensive vegetated assembly that has the pro's listed below with a low maintenance solution .

Among the many Greenroof-Roofscapes® installations already installed throughout the globe, four projects have won the prestigious **"North American Awards of Excellence"** presented by Green Roofs for Healthy Cities.

- **Greatly Reduces or Eliminates Stormwater Runoff**
- **Low Life Cycle Cost**
- **Increases Energy Efficiency**
- **Reduces Urban Heat Island Effect**
- **Converts Carbon Dioxide to Oxygen, Improving Urban Air Quality**

Greenroof-Roofscapes®

Complete Waterproofing System for Green Roof + Landscape Assemblies

System Components

The main components utilized in Greenroof-Roofscapes® systems are the waterproofing membrane, layers for protection, drainage, water retention, and aeration, layers of insulation, soil overburden & growing media, topped with a layer of plants & vegetation.

Greenroof-Roofscapes® | Assemblies

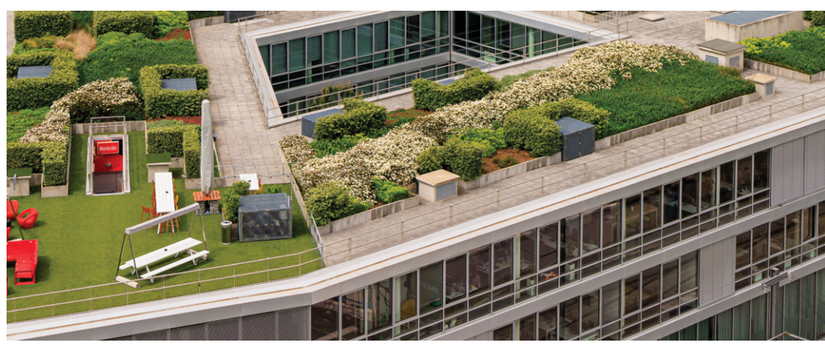
A well-designed green roof assembly, whether extensive or intensive, involves a series of functioning layers that must succeed in achieving the following:

- **Retain the necessary water to support the plants, trees, shrubs, etc.**
- **Allow proper drainage channels for any & all excess water**
- **Protect the roof surface from both roots & mechanical damage**

The success of a green roof relies heavily on the performance of the waterproofing system. In addition to preventing water ingress, waterproofing systems must also be able to provide the building with thermal performance, roof drainage, air tightness & vapor control, and protection from any structural damage caused by root penetration.

APPLICATIONS

- Extensive
- Semi-Intensive
- Intensive
- Wood Pavers
- Concrete Pavers
- PMR/IRMA®
- Planter Box



All Barrett projects that utilize the full Greenroof-Roofscapes system have a total system warranty. Barrett will remove and reinstall all overburden provided by GR/RS to remedy any warrantable leak, leaving the owner free from finger pointing that is typical with mixed manufacturers on a project.

One company, one call.

Black Pearl®

Cold Fluid Applied Rubberized Asphalt Below-Grade Waterproofing System

VERTICAL WATERPROOFING

- **Black Pearl® Primer Adhesive** Cold Asphalt
- **Black Pearl® Sheet Membrane** Asphalt Sheet
- **RamDrain DD** Dimpled Drainage Mat

HORIZONTAL WATERPROOFING

- **Ram 203** Protection Course
- **Black Pearl® Primer Adhesive** Cold Asphalt
- **Black Pearl® Sheet Membrane** Asphalt Sheet
- **Black Pearl® Primer Adhesive** Cold Asphalt
- **Black Pearl® Sheet Membrane** Asphalt Sheet
- **Black Pearl® Primer Adhesive** Cold Asphalt

BASE FLASHING

- **Black Pearl® Primer Adhesive** Cold Asphalt
- **Black Pearl® Sheet Membrane** Asphalt Flashing

WARRANTY

Up to **20 Years**

RamTough 250

Hot Fluid Applied Rubberized Asphalt Below-Grade Waterproofing System

VERTICAL WATERPROOFING

- **Ram Primer & Surface Conditioner**
- **RamTough 250** Hot Rubberized Asphalt
- **RamDrain DD** Dimpled Drainage Mat

HORIZONTAL WATERPROOFING

- **Ram 203** Protection Course
- **RamTough 250** Hot Rubberized Asphalt
- **PolyFelt 125VP** Reinforcement Fabric
- **RamTough 250** Hot Rubberized Asphalt
- **Ram Primer & Surface Conditioner**

BASE FLASHING

- **Ram Primer & Surface Conditioner**
- **RamTough 250** Hot Rubberized Asphalt
- **RamFlash 327 HDR** Uncured Neoprene

WARRANTY

Up to **20 Years**

Membrane

The waterproofing membrane is the most critical element of successful green roofs. It must assure a long-term, trouble-free, watertight base for the superimposed green roof assembly. Barrett's **Black Pearl®** and **RamTough 250**, Elastomeric BUR systems all offer time-proven performance in this type of demanding application.

Protection

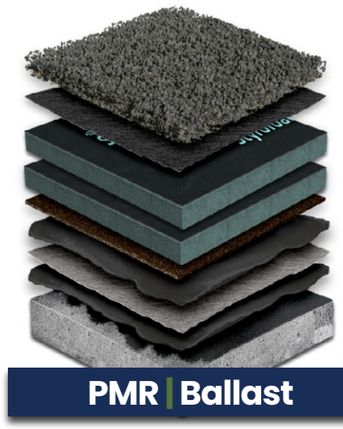
To ensure long-term protection from any structural damage to the membrane caused by root penetration, Greenroof-Roofscapes® are designed to incorporate Barrett's RB FLL-approved root barriers. Composed of polyethylene sheets and compatible tape, roots slide along the surface of the permanant root barrier

This single source warranty puts the liability on us, allowing our clients to rest easy knowing they chose Barrett as their system.

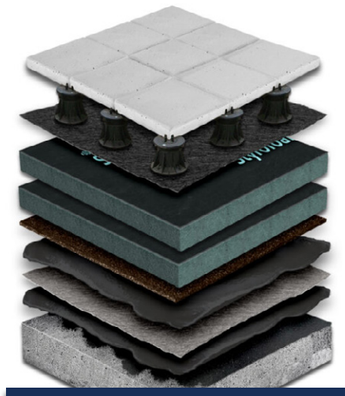
Pre-Grown Trays

Extensive

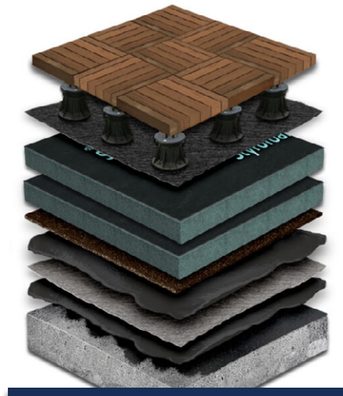
Intensive



PMR | Ballast



Concrete Pavers



Wood Pavers

— LIMITED WARRANTY —

Barrett warrants its Products to be free of defects in materials, but makes no warranty as to appearance or color. Since methods of application and on-site conditions are beyond our control and can affect performance, Barrett makes no other warranty, expressed or implied, including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE, with respect to The Barrett Company, LLC. Barrett to replace or to refund the purchase price of the quantity of Barrett proven to be defective, and Barrett shall not be liable for any loss or damage.

Greenroof Roofscapes®

Retention & Aeration

Roofscape® Air Mat (0.25")

Prefabricated Entangled Net Composite Drainage Mat

Roofscape® Air Mat is a prefabricated entangled net composite drain 0.25" thick, "zig-zag" geometric patterned core, drainage mat with a layer of non-woven geotextile on both front and back of the product. Roofscape® Air Mat has a 3-inch (76.2 mm) fabric flange beyond the core to provide overlaps with adjacent drainage courses. Roofscape® Air Mat is designed to eliminate hydrostatic pressure for plazas decks, foundation walls, balconies and planters in both horizontal and vertical applications.

Roofscape® RND 1.0 (1")

Semi-Rigid Waffled HDPE Retention & Drainage Mat

Roofscape® RND 1.0 (Retention & Drainage) is designed for extensive vegetated roofs requiring moderate water storage. It is a semi-rigid waffled plastic sheet that retains water within pockets on the upper side, making water available to vegetation. It has drill holes to drainage channels for diffusion & irrigation, and it channels surplus water through its bottom-sided canal system for secure drainage. Roofscape® RND 1.0 allows for the incorporation of a complete array of zone appropriate drought tolerant plantings in a less than 6" depth assembly.

Roofscape® RND 1.0 HS (1")

High-Strength Semi-Rigid Waffled HDPE Retention & Drainage Mat

Roofscape® RND 1.0 HS (Retention & Drainage) is designed for vegetative roofs with high pressure loads using a complete array of zone appropriate drought tolerant plantings. It is a semi-rigid waffled plastic sheet that retains water within pockets on the upper side, making water available to vegetation. It has drill holes to drainage channels for diffusion & irrigation, and it channels surplus water through its bottom-sided canal system for secure drainage. Roofscape® RND 1.0 HS allows for the incorporation of a complete array of zone appropriate drought tolerant plantings.

Roofscape® RND 1.6 (1.6")

High-Strength Semi-Rigid Waffled HDPE Retention & Drainage Mat

Roofscape® RND 1.6 (Retention & Drainage) is designed for semi-intensive vegetated roofs requiring water storage. It is a semi-rigid waffled plastic sheet that retains water within pockets on the upper side, making water available to vegetation. It has drill holes to drainage channels for diffusion & irrigation, and it channels surplus water through its bottom-sided canal system for secure drainage. Roofscape® RND 1.6 allows for the incorporation of a complete array of zone appropriate perennials and ornamental grasses in a 6" - 12" depth assembly.

Roofscape® RND 2.4 (2.4")

High-Density Waffled HDPE Retention & Drainage Panel

Roofscape® RND 1.6 (Retention & Drainage) provides water storage for intensive roofs with large plant palettes.. It is a high-density waffled plastic panel that retains water within pockets on the upper side, making water available to vegetation. It has drill holes to drainage channels for diffusion & irrigation, and it channels surplus water through its bottom-sided canal system for secure drainage. Roofscape® RND 2.4 allows for the incorporation of a complete array of zone-appropriate, drought-tolerant plantings in a greater than 12" depth assembly.

RamDrain 1241 (0.50")

Perforated Composite Water Retention & Drainage Board

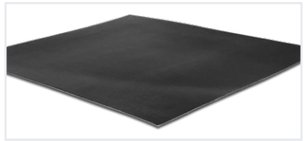
RamDrain 1241 is a 1/2" perforated composite polymeric drainage board with fabric on both sides. RamDrain 1241 is designed to be used in vegetated greenroof and planter configuration, the fabric cover allows excess water to flow from the growing medium into the water storage cups, while preventing the growing medium sediment from entering. The design is able to retain 0.06 gal/ft2.

RamDrain 2451 (1")

Perforated Composite Water Retention & Drainage Board (1")

RamDrain 2451 is a 1" perforated composite polymeric drainage with fabric on both sides. RamDrain 2451 is designed to be used in vegetated greenroof and planter configuration, the fabric cover allows excess water to flow from the growing medium into the water storage cups, while preventing the growing medium sediment from entering. The design is able to retain 0.11 gal/ft2.

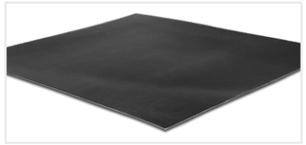
Root Barriers



Ram RB 20 (20 Mil)

Polyethylene Root Barrier

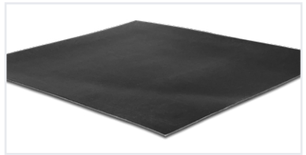
Ram RB 20 is a 20-mil polymeric sheet that effectively arrests root penetration and redirect roots to a horizontal growth plane, helping lock in vegetation and increasing resistance to wind up-lift forces.



Ram RB 30 (30 Mil)

Polyethylene Root Barrier

Ram RB 30 is a 30-mil polymeric sheet that effectively arrests root penetration and redirect roots to a horizontal growth plane, helping lock in vegetation and increasing resistance to wind up-lift forces.



Ram RB 40 (40 Mil)

Heavy-Duty Polyethylene Root Barrier

Ram RB 40 Root Barrier is a heavy duty, 40-mil linear polyethylene sheet which has been successfully established as an effective root barrier under severe conditions. Ram RB 40 Root Barrier contains virgin resins which does not become brittle or age prematurely. A typical carbon black content of 2.4% provides excellent protection from UV exposure and harsh weather conditions.

Ram RB 25 Seam Tape

Single-Sided Elastomeric Adhesive Root Barrier Seam Tape

Ram RB 25 Seam Tape is an elastomeric single-sided adhesive tape used to seal the seams of the Ram RB series of root barriers. The black polymer backing, and very aggressive adhesive is specifically formulated to provide maximum performance in green roof and planter box applications.

Ram RootProtect

Polyester Reinforced Asphalt Granular Cap Sheet + Root Protection

Ram RootProtect is a heavy-duty, rubberized asphalt sheet that is specially formulated with a factory-applied root growth regulator. The sheet is polyester reinforced and has a granule surfacing. Ram RootProtect is specifically designed to be embedded into Barrett's RamTough 250 roofing membrane when installed in a Greenroof-Roofscapes® Assembly. Ram RootProtect provides protection to the membrane from mechanical damage as well as damage due to penetration by roots.

Coco Erosion Control Blanket

100% Biodegradable Double-Sided Coconut Erosion Control Blanket

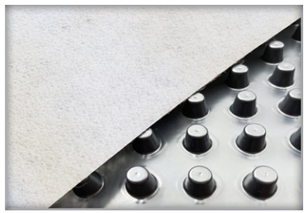
Coco Erosion Control Blanket is an FHWA Type IID temporary erosion control blanket that is used to control erosion of Greenroof-Roofscapes® media and plantings on flat and low-sloped installations. It is composed of 100% Cocunut/Coir Fiber distributed evenly between two layers of biaxially oriented Jute netting. The matrix is mechanically bonded (stitched) using biodegradable thread. Coco Erosion Control Blankets are designed to protect slopes and channels from erosive forces while allowing the passage of sunlight and moisture, providing the optimum environment for plant root development.

Roofscape® Liquid Erosion Control

Cross-Linked Polymer Hydrospray Erosion Control Liquid

Roofscape® Liquid Erosion Control is a breathable, water-absorbing hydrospray fluid that is utilized for the stabilization of low slope green roofs, bioinfiltration swales and standard roadside embankments. Upon application, the liquid bonds with growth media to create a porous surface which accepts rain water but resists wind erosion. Unlike most hydrospray products, Roofscape® Liquid Erosion Control won't degrade over ten or so precipitation or irrigation events. It requires very little water for activation (about 5-10 gal / 100 sq ft) and will begin to gel within 12 hours.

Preformed Drainage

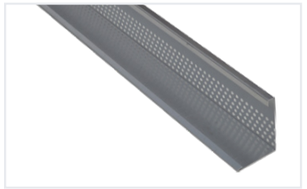


RamDrain DD 040 HS (0.40")

High-Strength Prefabricated Dimpled Composite Drainage Mat

Greenroof-Roofscapes® RamDrain DD-040HS is designed for drainage beneath accessible areas that do not need water storage and on vertical building components. It is a composite drainage layer consisting of a three-dimensional drainage core and a filter fabric bonded to the core, preventing intrusion of the overburden into the drainage channels. It retains soil or sand particles as well as freshly placed concrete allowing filtered water to pass through to the drainage core. It is typically used in areas necessitating a moderate compressive strength material for drainage, specifically for low load pedestrian accessibility for pavers, concrete or asphalt walkways, and patios.

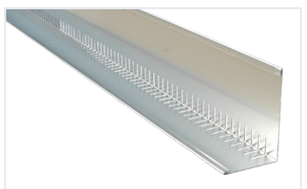
Edging



Roofscape® Edge

Aluminum Edging for Extensive Vegetated Roofs

Roofscape® Edge is designed as a definite boundary between gravel/paver and growth media within extensive vegetated roofs that allows the flow of water but not of the substrate. Available in 4", 5", and 6", these aluminum edges utilize a "smooth slide" design to make secure, invisible connections that prevent overly moist media conditions around the perimeter or in transition areas of the roof, thus preventing anaerobic growing conditions. They also have prefabricated corners for ease of installation.

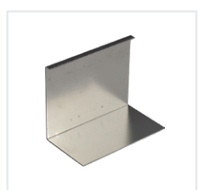


Roofscape® Edge+

Aluminum Edging for Semi-Intensive Vegetated Roofs

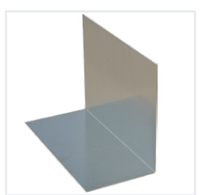
Roofscape® Edge+ is designed as a definite boundary between gravel/paver and growth media within semi-intensive vegetated roofs that allows the flow of water but not of the substrate. Available in 9" and 12", these aluminum edges utilize a "smooth slide" design to make secure, invisible connections that prevent overly moist media conditions around the perimeter or in transition areas of the roof, thus preventing anaerobic growing conditions. They also have prefabricated corners for ease of installation.

EDGE MALE

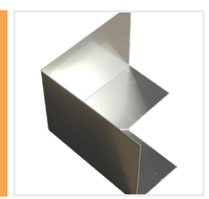


EDGE CORNER

EDGE+ MALE



EDGE+ CORNER



Greenroof-Roofscapes®

Pre-Grown Trays

DESCRIPTION

The Greenroof-Roofscapes® Pre-Grown Tray System provides a turnkey solution that meets or exceeds all guidelines for Green Roofs. The trays are easy to install and feature interlocking edges which prevent shifting or migration of growing media onto the roof membrane. At 24" x 24" x 4.625" deep, the pre-grown tray is appropriate for extensive and semi-intensive vegetative roof profiles. The modules are pre-grown with plants (most commonly sedum) selected by the project designer and shipped to the job site with approximately 90% or more vegetation coverage.

Comprised of a heavy duty recycled polypropylene, the Greenroof-Roofscapes® Pre-Grown Tray is designed with a channelized bottom to maximize stormwater retention. It can reduce both the amount and rate of stormwater run-off and is capable of retaining up to 70% of annual precipitation. Detailed stormwater retention calculations and hydrographs are available upon request.

PLANTING OPTIONS

Plants are grown per the project specifications, provided they are appropriate for the local climate zone and sufficient lead time has been provided. Please contact Barrett for more information.

LEED INFORMATION

Post-Consumer Recycled Content: 88%

Manufacturing Location: Washougal, WA 98671

WIND UPLIFT

- ANSI/SPRI RP-14 Wind Design Standard for Vegetative Roof Systems is the only Wind Uplift standard for the United States.
- Due to the interlocking design, The Planted-In-Place Tray is considered a #2 Ballast system (Increased wind uplift resistance).
- Please request a copy of the ANSI/SPRI RP-14 User Guide.

Declare Labels for Material Transparency:
The Declare Label is a voluntary disclosure of building material ingredients which offers Living Building Challenge and other project teams concerned about building product ingredients a guide for product specification. We are pleased to announce that our tray system is 'Red List Free' which means it doesn't contain "worst in class" materials, chemicals, and elements known to pose serious risks to human health and the greater ecosystem.

Greenroof-Roofscapes®
Intensive Media

DESCRIPTION
A planting medium for intensive vegetative (green) roof systems with a separate drain layer, designed to retain stormwater and to promote long lasting vigorous plant growth, and which meets the requirements described in ASTM E2777-14 Standard Guide for Vegetative (Green) Roof Systems and detailed below. rooflite intensive 600 is the 60 to 70 lb/ft³ fully saturated weight class of the rooflite intensive product line*. rooflite® intensive 600 is a precisely balanced blend of carefully selected lightweight mineral aggregates and premium organic components, like USCC STA approved compost complying with the following technical and performance requirements.

WEIGHT CLASSES
rooflite intensive is a product line that is available in different saturated weight classes. These weight classes are designed to guide you in choosing the best option for your project based on your weight requirements. Each weight class is identified by a number that corresponds to the typical weight for fully saturated media based on ASTM E2399.

Depending on your specific region, the following weight classes are available for rooflite intensive:

WEIGHT	SYSTEM	SATURATED WEIGHT
	Intensive 500	50 - 60 lb/ft³
	Intensive 600	60 - 70 lb/ft³
	Intensive 700	70 - 80 lb/ft³
	Intensive 800	80 - 90 lb/ft³

TECHNICAL PROPERTIES	PROPERTIES	RESULTS
	Particle Size Distribution (ASTM D422-63)	
	Proportion of Particles < 0.05mm	≤ 20% (mass)
	Proportion of Particles < 0.25mm #60 mesh	15 - 40% (mass)
	Proportion of Particles < 1.00mm #18 mesh	25 - 60% (mass)
	Proportion of Particles < 2.00mm #10 mesh	40 - 80% (mass)
	Proportion of Particles < 3.20mm 1/8" mesh	50 - 90% (mass)
	Proportion of Particles < 6.30mm 1/4" mesh	75 - 100% (mass)
	Proportion of Particles < 9.50mm 3/8" mesh	90 - 100% (mass)
	Proportion of Particles < 12.50mm 1/2" mesh	100% (mass)
	Bulk Density Measurements (ASTM E2399)*	
	Bulk Density Dry Weight Basis	25 - 45 lb/ft³
	Bulk Density at Max. Water-Holding Capacity	60 - 70 lb/ft³
	Water/Air Measurements (ASTM E2399)	
	Total Pore Volume	≥ 50% (vol)
	Max. Water-Holding Capacity	45 - 65% (vol)
	Air-Filled Porosity at Max. Water-Holding Capacity	≥ 7% (vol)
	Water Permeability (saturated hydraulic conductivity)	0.0118 - 1.18 in/min
	pH and Salt Content	
	pH (in $CaCl_2$)	6.0 - 8.5
	Soluble Salts (water, 1:10 m:v)	< 2.5 g (KCl)/L
	Organic Measurements (LOI at 500°C; SM 2540 G)	
	Organic Matter Content	50 - 90 g/L
	Nutrient Retention Capacity	
	Cation Exchange Capacity (CEC)	≥ 6 meq/100 g

Greenroof-Roofscapes®
Extensive Media

DESCRIPTION
A planting medium for extensive vegetative (green) roof systems with a separate drain layer, designed to retain stormwater and to promote long lasting vigorous plant growth, and which meets the requirements described in ASTM E2777-14 Standard Guide for Vegetative (Green) Roof Systems and detailed below.

Greenroof-Roofscapes® Extensive Media is a precisely balanced blend of carefully selected lightweight mineral aggregates and premium organic components, like USCC STA approved compost.

WEIGHT CLASSES
Greenroof-Roofscapes® Extensive Media is available in different saturated weight classes. These weight classes are designed to guide you in choosing the best option for your project. Each weight class is identified by a number that corresponds to the typical weight for fully saturated media based on ASTM E2399.

Depending on your specific region, the following weight classes are available for Greenroof-Roofscapes® Extensive Media:

WEIGHT	SYSTEM	SATURATED WEIGHT
	Extensive 500	50 - 60 lb/ft³
	Extensive 600	60 - 70 lb/ft³
	Extensive 700	70 - 80 lb/ft³
	Extensive 800	80 - 90 lb/ft³

TECHNICAL PROPERTIES	PROPERTIES	RESULTS
	Particle Size Distribution (ASTM D422-63)	
	Proportion of Particles < 0.05mm	≤ 15% (mass)
	Proportion of Particles < 0.25mm #60 mesh	5 - 30% (mass)
	Proportion of Particles < 1.00mm #18 mesh	10 - 50% (mass)
	Proportion of Particles < 2.00mm #10 mesh	30 - 70% (mass)
	Proportion of Particles < 3.20mm 1/8" mesh	40 - 80% (mass)
	Proportion of Particles < 6.30mm 1/4" mesh	65 - 95% (mass)
	Proportion of Particles < 9.50mm 3/8" mesh	80 - 100% (mass)
	Proportion of Particles < 12.50mm 1/2" mesh	100% (mass)
	Bulk Density Measurements (ASTM E2399)*	
	Bulk Density Dry Weight Basis	25 - 45 lb/ft³
	Bulk Density at Max. Water-Holding Capacity	60 - 70 lb/ft³
	Water/Air Measurements (ASTM E2399)	
	Total Pore Volume	≥ 50% (vol)
	Max. Water-Holding Capacity	40 - 60% (vol)
	Air-Filled Porosity at Max. Water-Holding Capacity	≥ 7% (vol)
	Water Permeability (saturated hydraulic conductivity)	0.024 - 2.83 in/min
	pH and Salt Content	
	pH (in $CaCl_2$)	6.0 - 8.5
	Soluble Salts (water, 1:10 m:v)	< 3.5 g (KCl)/L
	Organic Measurements (LOI at 500°C; SM 2540 G)	
	Organic Matter Content	25 - 65 g/L
	Nutrient Retention Capacity	
	Cation Exchange Capacity (CEC)	≥ 6 meq/100 g

CONCRETE PAVERS COME IN A VARIETY OF COLORS, FINISHES, AND SIZES.

WE WORK WITH MULTIPLE VENDORS TO MEET THE PROJECT REQUIREMENTS ALONG WITH SOURCING AS CLOSE TO THE PROJECT SITE AS POSSIBLE.

Greenroof-Roofscapes®

Concrete Pavers

DESCRIPTION

Concrete Pavers are inherently strong and offer superior performance. Suitable for use in a diverse range of applications and design needs, these pavers offer many advantages:

- Ideal for light pedestrian to heavy traffic applications.
- Aesthetically appealing, the pavers are available in a wide range of standard colors as well as custom varieties available upon request.

* Special Order Product

PAVERS

NITTERHOUSE MASONRY PRODUCTS, LLC

WAUSAU TILE

WESTILE®

Greenroof-Roofscapes® | SemperGreen®

Standard Sedum-Mix Blanket

DESCRIPTION

100% biodegradable vegetation blanket produced on a coir mat, the Standard Sedum-mix blanket is becoming increasingly popular as ready-to-lay ground cover for roundabouts, central reservations and roof terraces. Low maintenance with easy installation guarantees success. The vegetation blankets always boast at least 85% coverage on delivery.

PLANTS

The Standard Sedum-mix blanket contains 12 to 16 different types of Sedum. The plants grow in a mineral based substrate layer on a biodegradable coconut fibre carrier. Sedum is a succulent plant that is well able to store water in its leaves and therefore grows perfectly under diverse weather conditions. Barrett's Greenroof-Roofscapes® vegetation blankets are produced in accordance with FLL guidelines and ANSI-SPRI compliant.

INSTALLATION & MAINTENANCE

The maximum gradient for the Standard Sedum-mix blanket is 31 degrees (7:12). Sedum is a low-maintenance vegetation that does not need to be mown. The use of dense vegetation mats, means that weed growth is limited. The minimum maintenance will depend on the system structure (fertilization one to three times a year and inspecting the mat for (carried by the wind) weeds and removing these).

CONTACT US

For more information on Barrett's Greenroof-Roofscapes® Sedum-Mix blankets and a free quote for your green roof project, please contact a Barrett representative at the following:

roofscapes@barrettroofs.com

sempergreen® USA

TECHNICAL PROPERTIES

PROPERTIES	MEASUREMENT
Coverage	85% - 95%
Weight Dry	Approx. 3.5 - 4 lbs per sq/ft
Weight Saturated	Approx. 4.5 - 5 lbs per sq/ft
Tensile Strength	N/A
Thickness	0.50 - 0.75"
Roll Width	Approx. 47"
Roll Length	Approx. 77"
Sq/Ft per Roll	25 sq/ft
Sq/Ft per Pallet	15 - 16 rolls per pallet 375 - 400 sq/ft per pallet
Sq/Ft per Truck	Approx. 9000 sq/ft

**Actual sq/ft per truck depends on the moisture content (=weight) at the time of harvesting*

Greenroof-Roofscapes® | SemperGreen®

Maroon Sedum-Mix Blanket

DESCRIPTION

The Sedum-mix blanket is the most widely applied product for directly green extensive green roof system, also called Sedum roofs. On delivery our vegetation blankets always boasts at least 85% coverage. All of Barrett's Greenroof-Roofscapes® vegetation blankets are produced in accordance with FLL guidelines.

PLANTS

The Maroon Sedum-mix blanket contains a plant mix consisting of 6 to 7 succulent varieties. The plants has been specially selected to create a red assorted vegetation blanket. The plants grow in a mineral based substrate layer on a biodegradable coconut fibre carrier. Sedum is a succulent plant that is well able to store water in its leaves and therefore grows perfectly under diverse weather conditions.

INSTALLATION & MAINTENANCE

The maximum gradient for the Maroon Sedum-mix blanket is up to 31 degrees (7:12). The minimum maintenance will depend on the system structure (fertilization one to three times a year).

CONTACT US

For more information on Maroon Sedum-Mix blankets and a free quote for your green roof project, please contact a Barrett representative at the following:

roofscapes@barrettroofs.com

sempergreen® USA

TECHNICAL PROPERTIES	PROPERTIES	MEASUREMENT
	Coverage	85% - 95%
	Weight Dry	Approx. 3.5 - 4 lbs per sq/ft
	Weight Saturated	Approx. 4.5 - 5 lbs per sq/ft
	Tensile Strength	N/A
	Thickness	0.50 - 0.75"
	Roll Width	Approx. 47"
	Roll Length	Approx. 77"
	Sq/Ft per Roll	25 sq/ft
	Sq/Ft per Pallet	15 - 16 rolls per pallet 375 - 400 sq/ft per pallet
	Sq/Ft per Truck	Approx. 9000 sq/ft

**Actual sq/ft per truck depends on the moisture content (=weight) at the time of harvesting*

Greenroof-Roofscapes® | SemperGreen®

Sunray Sedum-Mix Blanket

DESCRIPTION

At the start of the production cycle, Sedum album, Sedum acre, Sedum hispanicum and Sedum sexangulare make up approximately 15% of the assortmentused to produce a Yellow/Blue Greenroof-Roofscapes® Sunray Sedum-Mix Blanket. The remaining 85% consists of a mixture of Sedum rupestre 'Angelina' and Sedum reflexum 'Blue Spruce'.

PLANTS

The Sunray Sedum-mix blanket contains a plant mix consisting of 5 to 6 succulent varieties that have been specially selected to create a yellow/blue assorted vegetation blanket. The plants grow in a mineral based substrate layer on a biodegradable coconut fibre carrier. Sedum is a succulent plant that is well able to store water in its leaves and therefore grows perfectly under diverse weather conditions.

INSTALLATION & MAINTENANCE

The maximum gradient for the Sunray Sedum-mix blanket is up to 31 degrees (7:12). The minimum maintenance will depend on the system structure (fertilization one to three times a year).

CONTACT US

For more information on Barrett's Greenroof-Roofscapes® Sedum-Mix blankets and a free quote for your green roof project, please contact a Barrett representative at the following:

roofscapes@barrettroofs.com

sempergreen® USA

TECHNICAL PROPERTIES	PROPERTIES	MEASUREMENT
	Coverage	85% - 95%
	Weight Dry	Approx. 3.5 - 4 lbs per sq/ft
	Weight Saturated	Approx. 4.5 - 5 lbs per sq/ft
	Tensile Strength	N/A
	Thickness	0.50 - 0.75"
	Roll Width	Approx. 47"
	Roll Length	Approx. 77"
	Sq/Ft per Roll	25 sq/ft
	Sq/Ft per Pallet	15 - 16 rolls per pallet 375 - 400 sq/ft per pallet
	Sq/Ft per Truck	Approx. 9000 sq/ft

**Actual sq/ft per truck depends on the moisture content (=weight) at the time of harvesting*

Greenroof-Roofscapes®

Roofscape® RND 1.0

DESCRIPTION

Greenroof-Roofscapes® RND 1.0 (Retention & Drainage) is designed for extensive vegetated roofs requiring moderate water storage. Specific to this product, it:

- Is a semi-rigid waffled plastic sheet that **retains water within pockets** on the upper side, making water available to vegetation.
- Has **drill holes to drainage channels** for diffusion and irrigation.
- Channels surplus water through its **bottom-sided canal system** for secure drainage.
- allows for the incorporation of a complete array of zone appropriate **drought tolerant plantings;** in a less than 6" depth assembly.

USES

- Extensive vegetative roofs using a complete array of zone appropriate drought tolerant plantings.

INSTALLATION

- Overlap boards by one cup
- Cover boards with overburden immediately to protect from UV rays & wind uplift

LEED INFORMATION

- Materials & Resources (MR)

PACKAGING

- 21.52 sq/ft per Unit
- 50 Units per Section
- 7 Sections per Pallet (Full Pallet)

TECHNICAL PROPERTIES	PROPERTIES	MEASUREMENT	TEST METHOD
	Materials	High Density Polyethylene **(100% Recycled)**	–
	Thickness	0.98"	–
	Dimensions	78 3/4" x 39 3/8"	–
	Coverage	21.52 sq/ft	–
	Weight	0.28 lbs/sq ft	–
	Compressive Strength	29 lbs/sq ft (unfilled) 25.38 lbs/sq ft (filled)	–
	Water Holding Capacity	0.20 in^3/in^2 0.122 gal/sq ft	–
	Drainage (Fully Saturated)	26.22 $in^3/ft/sec$ (at 2% slope)	–

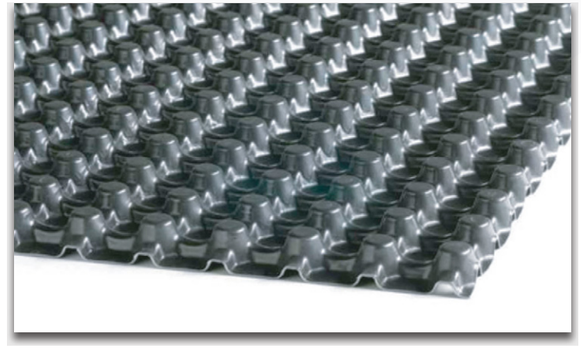
Greenroof-Roofscapes®

Roofscape® RND 1.0 HS

DESCRIPTION

Greenroof-Roofscapes® RND 1.0 HS (Retention & Drainage) is designed for extensive vegetated roofs requiring moderate water storage. Specific to this product, it:

- Is a semi-rigid waffled plastic sheet that **retains water within pockets** on the upper side, making water available to vegetation.
- Has **drill holes to drainage channels** for diffusion and irrigation.
- Channels surplus water through its **bottom-sided canal system** for secure drainage.
- allows for the incorporation of a complete array of zone appropriate **drought tolerant plantings.**



USES

- Vegetative roofs with high pressure loads using a complete array of zone appropriate drought tolerant plantings.

INSTALLATION

- Overlap boards by one cup
- Cover boards with overburden immediately to protect from UV rays & wind uplift

LEED INFORMATION

- Materials & Resources (MR)

PACKAGING

- 21.52 sq/ft per Unit
- 50 Units per Section
- 5 Sections per Pallet (Full Pallet)

TECHNICAL PROPERTIES	PROPERTIES	MEASUREMENT	TEST METHOD
	Materials	High Density Polyethylene **(100% Recycled)**	–
	Thickness	1.06"	–
	Dimensions	78 3/4" x 39 3/8"	–
	Coverage	21.52 sq/ft	–
	Weight	0.51 lbs/sq ft	–
	Compressive Strength	66.71 lbs/sq ft (filled)	–
	Water Holding Capacity	0.57 in^3/in^2 0.355 gal/sq ft	–
	Drainage (Fully Saturated)	24.73 $in^3/ft/sec$ (at 2% slope)	–

Greenroof-Roofscapes®

Roofscape® RND 1.6

DESCRIPTION

Roofscapes® RND 1.6 (Retention & Drainage) is designed for semi-intensive vegetated roofs where water storage is required. Specific to this product, it:

- Is a semi-rigid waffled plastic sheet that **retains water within pockets** on the upper side, making water available to vegetation.
- Has **drill holes to drainage channels** for diffusion and irrigation.
- Channels surplus water through its **bottom-sided canal system** for secure drainage.
- Allows for the incorporation of a complete array of zone appropriate **perennials and ornamental grasses;** in a 6" - 12" depth assembly.

USES

- Semi-intensive vegetative roofs using a complete array of zone appropriate perennials and ornamental grasses.

INSTALLATION

- Overlap boards by one cup
- Cover boards with overburden immediately to protect from UV rays & wind uplift

LEED INFORMATION

- Materials & Resources (MR)

PACKAGING

- 21.52 sq/ft per Unit
- 50 Units per Section
- 6 Sections per Pallet (Full Pallet)

TECHNICAL PROPERTIES	PROPERTIES	MEASUREMENT	TEST METHOD
	Materials	High Density Polyethylene **(100% Recycled)**	–
	Thickness	1.57"	–
	Dimensions	78 3/4" x 39 3/8"	–
	Coverage	21.52 sq/ft	–
	Weight	0.47 lbs/sq ft	–
	Compressive Strength	20.88 lbs/sq ft (unfilled) 40.61 lbs/sq ft (filled)	–
	Water Holding Capacity	0.34 in^3/in^2 0.213 gal/sq ft	–
	Drainage (Fully Saturated)	42.96 in^3/ft/sec (at 2% slope)	–

Greenroof-Roofscapes®

Roofscape® RND 2.4

DESCRIPTION

Roofscapes® RND 2.4 (Retention & Drainage) provides water storage for intensive roofs with large plant palettes. Specific to this product, it:

- Is a high density plastic panel that **retains water within pockets** on the upper side, making water available to vegetation.
- Has **drill holes to drainage channels** for diffusion and irrigation.
- Channels surplus water through its **bottom-sided canal system** for secure drainage.
- Allows for the incorporation of a complete array of zone appropriate **drought tolerant plantings;** in a greater than 12" depth assembly.
- **Transfers loads uniformly** to the substructure via large contact areas.

USES

- High load capacity systems that harvest stormwater and cool buildings.

INSTALLATION

- Butt boards tight together
- Cover boards with overburden immediately to protect from UV rays & wind uplift

LEED INFORMATION

- Materials & Resources (MR)

PACKAGING

- 25.28 sq/ft per Unit
- 30 Units per Section
- 6 Sections per Pallet (Full Pallet)

TECHNICAL PROPERTIES	PROPERTIES	MEASUREMENT	TEST METHOD
	Materials	High Density Polyethylene **(100% Recycled)**	–
	Thickness	2.36"	–
	Dimensions	92 1/8" x 39 1/2"	–
	Coverage	25.28 sq/ft	–
	Weight	0.47 lbs/sq ft	–
	Compressive Strength	100.8 lbs/sq ft (filled)	–
	Water Holding Capacity	0.91 in^3/in^2 0.564 gal/sq ft	–
	Drainage (Fully Saturated)	15.49 in^3/ft/sec (at 2% slope)	–

Greenroof-Roofscapes®

Roofscape® Edge

DESCRIPTION

Roofscape® Edge is designed as a definite boundary between gravel/paver and growth media that allows the flow of water but not of the substrate. Specific to this product, it:

- Utilizes a **"smooth slide" design** to make secure, invisible connections
- Has **prefabricated corners** for ease of installation.
- **Prevents overly moist media conditions** around the perimeter or in transition areas of the roof, thus preventing anaerobic growing conditions.

	SIZE	DIMENSIONS
FEMALE	4"	2"- 8' x 3" x 4"
	5"	2"- 8' x 5 1/2" x 5"
	6"	2"- 8' x 4 1/2" x 6"
MALE	4"	5" x 2 3/4" x 3 3/4"
	5"	5" x 5 1/4" x 4 3/4"
	6"	5" x 4 1/4" x 5 3/4"
CORNER	4"	7 7/8" x 3" x 4"
	5"	7 7/8" x 5 1/2" x 5"
	6"	7 7/8" x 4 1/2" x 6"

PACKAGING

- 8' - 2" per Length/Clip
- 22 Pallets per Load (Full Load)
- 22 Pallets per Load (Full Load)

USES

- Extensive vegetated roofs.

INSTALLATION

- Overlap boards by one cup
- Cover boards with overburden immediately to protect from UV rays & wind uplift

TECHNICAL PROPERTIES	MEASUREMENT	TEST METHOD
System Type	Monolithic Contigious Modular	–
Material	Aluminum	–
Thickness	18 GA	–
Finish	Mill (Natural Aluminum)	–
Roof/Deck Slope Constraint	Up to 5° Slope ; 1:12 Roof Pitch	–
Water Permeability	*Dependent on Drainage/Retention Board	–

Greenroof-Roofscapes®

Roofscape® Edge+

DESCRIPTION

Roofscape® Edge+ is designed as a definite boundary between gravel/paver and growth media that allows the flow of water but not of the substrate. Specific to this product, it:

- Utilizes a **"smooth slide" design** to make secure, invisible connections
- Has **prefabricated corners** for ease of installation.
- **Prevents overly moist media conditions** around the perimeter or in transition areas of the roof, thus preventing anaerobic growing conditions.

	SIZE	DIMENSIONS
FEMALE	9"	96" x 6" x 9"
	12"	96" x 6" x 12"
MALE	9"	12" x 5.675" x 8.675"
	12"	12" x 5.675" x 11.675"
CORNER 1	9"	12" x 5.675" x 8.675"
	12"	12" x 5.675" x 11.675"
CORNER 2	9"	12" x 5.675" x 8.675"
	12"	12" x 5.675" x 11.675"

PACKAGING

9" Metal Edge
- 10 Lengths & Clips (80')
- 100 Lengths & Clips per Pallet

12" Metal Edge
- 10 Lengths & Clips (80')
- 80 Lengths & Clips per Pallet

USES

- Semi-Intensive vegetated roofs.

INSTALLATION

- Lay edge profile sections end to end on top of protective fleece, with 1' of restraint toward vegetative portion of roof.
- Slide Male Clips into Female Lengths.
- Connect all components as shown on edging plan.

TECHNICAL PROPERTIES	MEASUREMENT	TEST METHOD
System Type	Monolithic Contigious Modular	–
Material	5052-H32 Aluminum	–
Thickness	9" = 12 GA 12" = 10 GA	–
Finish	Mill (Natural Aluminum)	–
Roof/Deck Slope Constraint	Up to 5° Slope ; 1:12 Roof Pitch	–
Water Permeability	*Dependent on Drainage/Retention Board	–

Greenroof-Roofscapes®

Data Sheet

LP401-405 Pedestal Series

LP401 LP402 LP403 LP404 LP405

Range

- **LP401:** 1" - 1.125" (25 - 30mm)
- **LP402:** 1.125" - 1.5" (30mm - 37mm)
- **LP403:** 1.5" - 2" (37 - 50mm)
- **LP404:** 2" - 3" (50mm - 75mm)
- **LP405:** 3" - 5" (75mm - 125mm)

Function

The RoofScape-LevelPro® series LP401-LP405 support has been designed for the installation of any type of tile floor on any surface, allowing the underlying inspection of various systems and potential waterproofing, with no need to carry out any demolition.

Thanks to the innovative system of adjustment from above, the perfect final levelling of the floor with millimetric height adjustment is obtained by using the Topkey key, in addition to the self-levelling capacity of the head which adapts to inclinations of the supporting surface of up to 5%.

To complete the absolute versatility of the system, 2 rings with different functions are supplied: the Level Lock (LP-LL) in case it is necessary to compensate for the self-levelling effect of the head, and the Rotation Lock (LP-RL) in case it is necessary to adjust the height on the sides as in the case of installation in the center of the tile/paver. Both rings are fixed to the head of the support and can be used individually or combined. The included 2 mm thick rubber leveler, to be applied over the head, reduces the foot-traffic noise by reducing contact between the tile/paver and the head.

Performance

The materials used to produce RoofScape-LevelPro® products have good resistance to acidic, basic solutions and atmospheric agents such as bad weather, air exposure, UV exposure. Reaction to fire classification of the pedestal and of the anti-shock rubber shim: E(fl). Their mechanical features stay the same over time.

Operating Temperature

-40 F - +167 F (-40 C - +75 C)

Weight Capacity

2,204 lbs / pedestal (1,000 kgs)

Product Raw Material

The RoofScape-LevelPro® pedestals are comprised of 80% polypropylene and 20% Talc, Talc is specifically used for strengthening and reinforcing the polypropylene.

All plastic utilizes 100% recycled and recyclable material.

Greenroof-Roofscapes®

Data Sheet

LP406-414 Pedestal Series

LP406 LP407 LP408 LP409 LP410 LP411 LP412 LP413 LP414

Function

The RoofScape-LevelPro® series LP406 - LP414 pedestal support has been designed for the installation of any type of tile floor on any surface, allowing the underlying inspection of the various systems and potential waterproofing, with no need to carry out any demolition. Beyond LP406, the tower extension drop and clip system is used to achieve the higher heights.
Thanks to the innovative system of adjustment from above, the perfect final levelling of the floor with millimetric height adjustment is obtained by using the Topkey key, in addition to the self-levelling capacity of the head which adapts to inclinations of the supporting surface of up to 5%.
To complete the absolute versatility of the system, 2 rings with different functions are supplied: the Level Lock (LP-LL) in case it is necessary to compensate for the self-levelling effect of the head, and the Rotation Lock (LP-RL) in case it is necessary to adjust the height on the sides as in the case of installation in the center of the tile/paver. Both rings are fixed to the head of the support and can be used individually or combined. The included 2 mm thick rubber leveler, to be applied over the head, reduces the foot-traffic noise by reducing contact between the tile/paver and the head.

Performance

The materials used to produce RoofScape-LevelPro® products have good resistance to acidic, basic solutions and atmospheric agents such as bad weather, air exposure, UV exposure. Reaction to fire classification of the pedestal and of the anti-shock rubber shim: E(fl). Their mechanical features stay the same over time.

Operating Temperature

-40 F - +167 F (-40 C - +75 C)

Weight Capacity

2,204 lbs / pedestal (1,000 kgs)

Range

- **LP406:** 5" - 8.875" (125mm - 225mm)
- **LP407:** 8.875" - 12.75" (225mm - 325mm)
- **LP408:** 12.75" - 16.75" (325mm - 425mm)
- **LP409:** 16.75" - 20.75" (425mm - 525mm)
- **LP410:** 20.75" - 24.75" (525mm - 625mm)
- LP411: 24.75" - 28.5" (625mm - 725mm)
- LP412: 28.5" - 32.5" (725mm - 825mm)
- LP413: 32.5" - 36.25" (825mm - 925mm)
- LP414: 36.25" - 40" (925mm - 1025mm)

Product Raw Material

The RoofScape-LevelPro® pedestals are comprised of 80% polypropylene and 20% Talc, Talc is specifically used for strengthening and reinforcing the polypropylene.

All plastic utilizes 100% recycled and recyclable material.

STAY CONNECTED!

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