



Barrett / EcoCline

High Performance Living Roofs



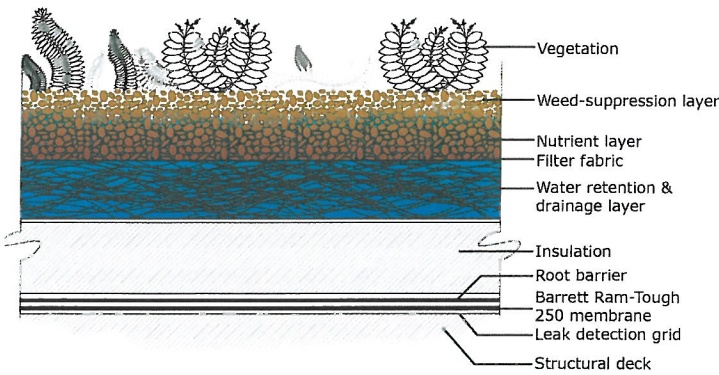
EcoCline

General Description

EcoCline is a vegetated roof covering unlike any other. Developed by Furbish and marketed in conjunction with the Barrett Company waterproofing systems, the EcoCline profile options offer highly efficient stormwater management and guaranteed plant performance in lightweight configurations.

Other attributes include high recycled content, low carbon footprint, profile flexibility to meet stormwater and other design criteria with decades old, time proven waterproofing assembly.

The Barrett / EcoCline assemblies are offered with a single source warranty that includes 5 year Stewardship vegetation maintenance and warranty, 10 year concrete paver warranty, and up to a 25 year waterproofing labor and material warranty, including overburden removal.



EcoCline Component Technical Data

TEMPORARY SURFACE PROTECTION LAYER

Material: Biodegradable tackifier

MEDIA (weed suppression and nutrient layers)

Primary components: Post-industrial and/or demolition brick & granite
 Particle size: 90% <= 1/2"
 Organic components: Post-industrial pine fines <=20% per volume
 Maximum water retention: >=17% (ASTM E-2399)

FILTER FABRIC

Minimum Average Values:
 Unit Weight: 4 oz/SY (ASTM D-3776)
 Grab Tensile Strength: 100 lbs (ASTM D-4632)
 Grab Elongation: 50% (ASTM D-4632)
 CBR Puncture Strength: 300 lbs (ASTM D-6241)
 Mullen Burst Strength: 200 psi (ASTM D-3786)
 Trapezoidal Tear: 30 lbs (ASTM D-4533)
 Apparent Opening Size (AOS): 0.212mm (ASTM D-4751)
 Permittivity: 1.7 sec -1 (ASTM D-4491)
 Water Flow Rate: 100 gpm/ft2 (ASTM D-4491)
 UV Resistance @ 500 hrs: 70% retained (ASTM D-4491)

WATER RETENTION AND DRAINAGE LAYER

Primary Component: Mineral wool
 Recycled Content: >=60% per volume
 In-Plane Flow per 1" thickness*: 0.05 g/min/ft (ASTM D-4716)
 Maximum water retention: 94% (ASTM E-2397)

* Hydraulic gradient = 1

Common EcoCline Profiles

	EcoCline 2+1	EcoCline 3+1	EcoCline 2+2	EcoCline 3+2	EcoCline 2.5+3	EcoCline 3+3
System Thickness	3 inches (2" media + 1" water retention)	4 inches (3" media + 1" water retention)	4 inches (2" media + 2" water retention)	5 inches (3" media + 2" water retention)	5.5 inches (2.5" media + 3" water retention)	6 inches (3" media + 3" water retention)
Dry Weight	13-15 lbs/sf	20-22 lbs/sf	14-16 lbs/sf	22-24 lbs/sf	20-21 lbs/sf	23-24 lbs/sf
Max. Fully Saturated Wt.	21-22 lbs/sf	28-30 lbs/sf	26-27 lbs/sf	34-36 lbs/sf	35-37 lbs/sf	40-41 lbs/sf
Water Holding Capacity	0.9 gallons/sf	1.0 gallons/sf	1.5 gallons/sf	1.6 gallons/sf	2.1 gallons/sf	2.1 gallons/sf
Max. Rain Event Capacity	1.3 inch storm	1.5 inch storm	2.2 inch storm	2.4 inch storm	3.3 inch storm	3.4 inch storm
ANSI/SPRI RP-14 Class	#2 ballast	#2 ballast	#2 ballast	#2 ballast	#2 ballast	#2 ballast
ANSI VF-1 Rating	Class A	Class A	Class A	Class A	Class A	Class A
MDE Runoff Curve Number	88	88	77	77	<77	<77
Maximum Water Retention (ASTM E-2397 & 2399)	44%	37%	55%	47%	60%	55%

Other EcoCline profiles are available to meet the stormwater and weight requirements for your project.

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