



EcoFlo™

Dynamic Drainage Blanket

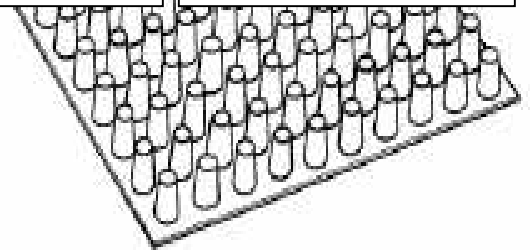
EcoFlo is a high compressive-strength, moisture conducting, non-absorbent geo-composite drainage and shock attenuation blanket, made from recycled materials, for use with vertically-draining artificial turf systems. **EcoFlo** is a two-part pre-fabricated composite that consists of a formed polystyrene core with integral expansion joints, 10' O.C. The core is covered on one or two sides with a non-woven polypropylene filter fabric. The filter fabric allows water to pass freely into the core while restricting any movement of infill or other particles that might clog the core. The core provides a high compressive-strength structure that allows water to flow to designated outflows. The use of **EcoFlo** greatly reduces risk factors associated with poor subsurface soils. Installation provides an uninterrupted vertical-to-horizontal flow path for superior rainfall evacuation and enhanced G-max and P-max performance without changing the ball-action or feel under-foot. The integrity of the system moisture-seal is maintained by use of an impervious bonding tape, which also expands and contracts, thus maintaining the function of the integral expansion joints.

Typical properties US SI Test method

Typical properties	US	SI	Test method
Fabric Properties Material Grab tensile strength Puncture strength Trapezoidal tear Mullen burst strength Elongation EOS (AOS) Permittivity Permeability Flow rate Core properties Material Thickness Comp. Strength Flow capacity per unit width Expansion Coefficient Product Weight	Polypropylene 110 lbs 65 lbs 50 lbs 215 psi 60% 70 sieve 1.6 sec -1 0.01 ft/sec 150 gpm/ft2 Polystyrene 7/16 in 32,000 lbs/ft2 16 gpm/ft 4.42 x10-5 in/in Per°C 32 oz/yd2 marv	Polypropylene 485 N 285 N 220 N 1430 kPa 60% 212 micron 1.6 sec-1 0.3 cm/sec 6110 lpm/m2 Polystyrene 11 mm 1464 kN/m2 200 lpm/m	ASTM D4632 ASTM D3787 ASTM D4533 ASTM D3786 ASTM D4632 ASTM D4751 ASTM D4491 ASTM D4491 ASTM D4491 ASTM D1621(Mod) ASTM D4716

RAINFALL EVACUATION CAPACITY (when properly installed according to these specifications): **4.4 inches/hour**

All information, drawings and specifications are based on the latest product information available at the time of printing. Constant improvement and engineering progress make it necessary that we reserve the right to make changes without notice. All physical properties are typical values. Standard variations in mechanical properties of 10% and in hydraulic properties of 20% are normal.



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INSTALLATION: *Minimum Physical Requirements*

Contractor shall use an electronic or staked grade grid, of not more than 25' separation, to establish finished grade of stone or other approved base, before installing **EcoFlo** blanket. Stone or other approved base should not deviate from specified finish grade by more than 1/4" under ten ft. straight edge.

EcoFlo shall be installed along full end-to-end length of the field, perpendicular to the direction of slope. The 4' wide rows should be installed starting at the crown (or highest grade elevation) and 'shingled' toward the lowest grade elevation (the protruding flange shall be placed on the highest elevation side, and the flanged edge of the subsequent roll shall be inserted completely under the un-flanged edge of the preceding row). The installation of the rows of **EcoFlo** shall continue in this manner until over the open stone of the perimeter collector drains, where a 4' wide row of pervious (perforated) **EcoFlo** shall be placed, in the same manner. The impervious **EcoFlo** row nearest the collector drain shall be trimmed in width (from the un-flanged edge) to allow precise fit of full 4' wide pervious **EcoFlo**, to anchorage line. The rows of **EcoFlo** shall be bonded and moisture sealed, using **EcoFlo** Impervious Bonding Tape, as supplied by **FieldShield**, on all seams. All seams shall be sufficiently tight to leave no gaps or irregularities that could reflect through the synthetic grass surface, however, care should be taken to maintain a minimum 1/4" separation to allow for thermal expansion. The drainage blanket may be temporarily held in place by stapling to wood nailer, every few feet.

Note: The flanged edge of a **EcoFlo** roll must always butt with an un-flanged edge. Where two flanged edges meet due to slope transitions, such as at the crown of the field, one flange edge must be trimmed and removed to prevent a gap in the plane of the **EcoFlo** surface.

The dynamic drainage blanket shall consist of a high density, non-degradable, frustrumated, polystyrene derived core, sandwiched between a needle punched non-woven geotextile on one side and a heat-bonded non-woven geotextile on the other side

Total weight of blanket shall be a minimum of 32 oz./sy and capable of accepting a compressive load of 32,000 psf, without crushing and while maintaining measurable flow.

The **EcoFlo Dynamic Drainage Blanket** shall have continuous, impervious core incorporating expansion joints every 10'. The drainage blanket so constructed, must provide a completely impervious underlayment, over the entire field area, when properly bound with impervious bonding tape; and must not wrinkle, wave, float, buckle or otherwise disturb the planarity of the artificial turf surface, even under the most elevated conditions for thermal expansion to be experienced at the site.

Thickness of blanket shall be a minimum of .5 inches

Play it Safe!