

SEPARATION FABRIC

Separation Fabric is a porous, synthetic geotextile made from a mechanically-consolidated, needle-punched blend of polypropylene and polyester fibers. Unlike most filter fabrics, it achieves mechanical strength without heat treatment and retains an open, three-dimensional surface structure that is highly resistant to clogging. The internal pore size distribution is carefully controlled to retain green roof planting media without restricting root penetration or water drainage. All rolls are electrically scanned for metal debris and broken punching needles.

Separation Fabric is available in two weights: the standard duty (SD) 4 oz/yd² is typically used over granular drainage media, and the heavy duty (HD) 6 oz/yd² is typically used over plastic sheet drains and at gravel perimeters where higher strength is required.



PHYSICAL CHARACTERISTICS

Property	Test Method	SD (US)	SD (metric)	HD (US)	HD (metric)
Dry Weight (typical)	ASTM D5261	4 oz/yd ²	135 g/m ²	6 oz/yd ²	200 g/m ²
Thickness (typical)	ASTM D5199	3/32 in	2mm	1/8 in	3mm
Static Puncture CBR (marv)	ASTM D6241	120 lb	550 N	290 lb	1290 N
Pin Puncture (marv)	ASTM D4833	20 lb	90 N	55 lb	250 N
Elongation (marv)	ASTM D4632	50%	50%	50%	50%
Grab Tensile (marv)	ASTM D4632	70 lb	300 N	90 lb	400 N
Trapezoidal Tear (marv)	ASTM D4533	30 lb	130 N	40 lb	170 N
Flow Rate (marv)	ASTM D4491	200 gpm/ft ²	70 lpm/m ²	200 gpm/ft ²	70 lpm/m ²
Permittivity (marv)	ASTM D4491	2.5 sec ⁻¹	2.5 sec ⁻¹	2.5 sec ⁻¹	2.5 sec ⁻¹
Mean Pore Size (typical)	ASTM F316	140 mesh	100 μ	140 mesh	100 μ
Bubble Point (typical)	ASTM D6767	70 mesh	220 μ	70 mesh	220 μ
O90 (typical)	ISO-12956	140 mesh	110 μ	140 mesh	110 μ
Roll Dimensions (typical)	-	6 ft x 100 ft	1.8 m x 30.5m	6 ft x 100 ft	1.8 m x 30.5m
Roll Surface Area (typical)	-	600 ft ²	56 m ²	600 ft ²	56 m ²
Roll Weight (typical)	-	17 lb	8 kg	25 lb	12 kg

(marv = minimum average roll value; allow 10-15% additional material for overlaps)

INSTALLATION

Since Separation Fabric becomes heavy when saturated with water, all rolls are shipped individually wrapped in waterproof plastic bags. Store the rolls in a dry location or under a waterproof tarp.

Unroll CT Separation Fabric, overlapping adjacent sheets approximately six inches. Cut with a heavy-duty scissors or shears. Spray with water to prevent uplift during windy conditions. Do not place fabric over drainage openings in aluminum edge or drain access enclosures!