







EROSION Protection

# Mirafi® G-Series Drainage Composite

for Retaining Walls, Cut-Off Drains and Landfill Closures

TenCate® develops and produces materials that function to increase performance, reduce costs and deliver measurable results by working with our customers to provide advanced solutions.

The Difference Mirafi® G-Series Drainage Composite Makes:

- Consistent and proven long-term performance due to a multi-directional core configuration providing a uniform flow path for water to escape.
- Relief of hydrostatic pressure buildup against subterranean surfaces.
- High-flow drainage capacity of up to three times the flow capacity of aggregate or sand, assuring effective drainage for virtually any drainage need.
- High compressive strength core that withstands installation and in-situ earth stresses.
- Cost savings due to the lightweight, easy to install 1.22m x 15.24m (4' x 50') panels.
   This saves the transportation cost of bringing aggregate to the construction site.

Mirafi® G100N and G100NC drainage composites are produced from a high compressive strength core with a nonwoven polypropylene geotextile bonded to one side. Mirafi® G100W drainage composite provides the added benefit of a woven monofilament polypropylene geotextile bonded to one side for higher clog resistance and long-term flow capacity. Mirafi® G200N drainage composite, is ideal for two-sided drainage applications. Mirafi® N-Series nonwoven polypropylene geotextile is bonded to both sides of a high compressive strength pierced dimple core.

#### **APPLICATIONS**

Mirafi® G100N, G100NC, G200N, and G100W drainage composites are designed for use in high-flow, high compressive strength, vertical applications where single or double-sided subsoil drainage filter layer is needed. The flat side of the core fits directly against wall surfaces making it ideal for retaining walls, bridge abutments and other similar retaining structures. Mirafi® G100N, G100NC, G200N, and G100W drainage composites are capable of collecting large quantities of subgrade water and conducting it to a discharge pipe or collection system. Ideal applications



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include placement against the excavation cut of a retaining wall or slope, landfill closure interceptor drainage and in trench drains.

#### **INSTALLATION GUIDELINES\***

Detailed installation instructions are available from your TenCate representative.

\* These guidelines serve as a general basis for installation.

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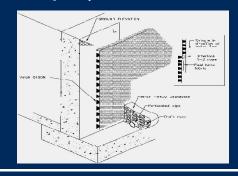


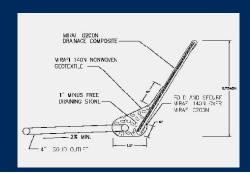
## Mirafi® G-Series Drainage Composite

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PROPERTY	TEST METHOD	UNITS	G100N	G100NC	G100W	G200N
CORE						
Color Thickness Compressive Strength Maximum Flow Rate¹ Installed Vertically² Installed Horizontally³ ¹In plane flow tested at 173kPa (3600 ³Installed flow rate with soil or concre ³Installed flow rate with soil overburd	ete overburden at vertical gradient	in (mm) psf (kN/m²) gpm/ft (I/min/m) gpm/ft (I/min/m) gpm/ft (I/min/m)	black 0.4 (10.2) 18000 (861) 21 (260) 12.5 (155) 2.4 (30)	black 0.4 (10.2) 18000 (861) 14 (173) ?	black 0.4 (10.2) 18000 (861) 21 (260) 18 (224) 3.8 (47)	black 0.4 (10.2) 21000 (1005 21 (260) 12.5 (155) 3.8 (47)
GEOTEXTILE FILTER						
Mirafi® Geotextile			140NC	160N	FW402	140N
MECHANICAL PROPERT	TIES					
Grab Tensile Strength (MD) Grab Tensile Strength (CD) CBR Puncture Strength UV Resistance after 500 hrs	ASTM D4632 ASTM D4632 ASTM D6241 ASTM D4355	lbs (N) lbs (N) lbs (N) % strength	100 (445) 100 (445) 250 (1113) 70	160 (712) 160 (712) 400 (1780) 70	365 (1624) 200 (890) 675 (3004) 90	120 (534) 120 (534) 210 (1413) 70
AOS	40 (0.425)	70 (0.212)	40 (0.425)	70 (0.212)	40 (0.425)	70 (0.212)
Permittivity Flow Rate Percent Open Area	ASTM D4491 ASTM D4491 COE-02215-86	sec <sup>-1</sup> gpm/ft² (I/min/m)² %	2.0 140 (5704) na	1.5 110 (4481) na	2.1 145 (5907) 10	1.7 135 (5500) na
PACKAGING						1
Roll Width Roll Length Est. Gross Weight Area	  	ft (m) ft (m) lbs (kg) ft²(m²)	4 (1.2) 50 (15.2) 50 (23) 200 (18.6)	4 (1.2) 50 (15.2) 50 (23) 200 (18.6)	4 (1.2) 50 (15.2) 50 (23) 200 (18.6)	4 (1.2) 50 (15.2) 50 (23) 200 (18.6)

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