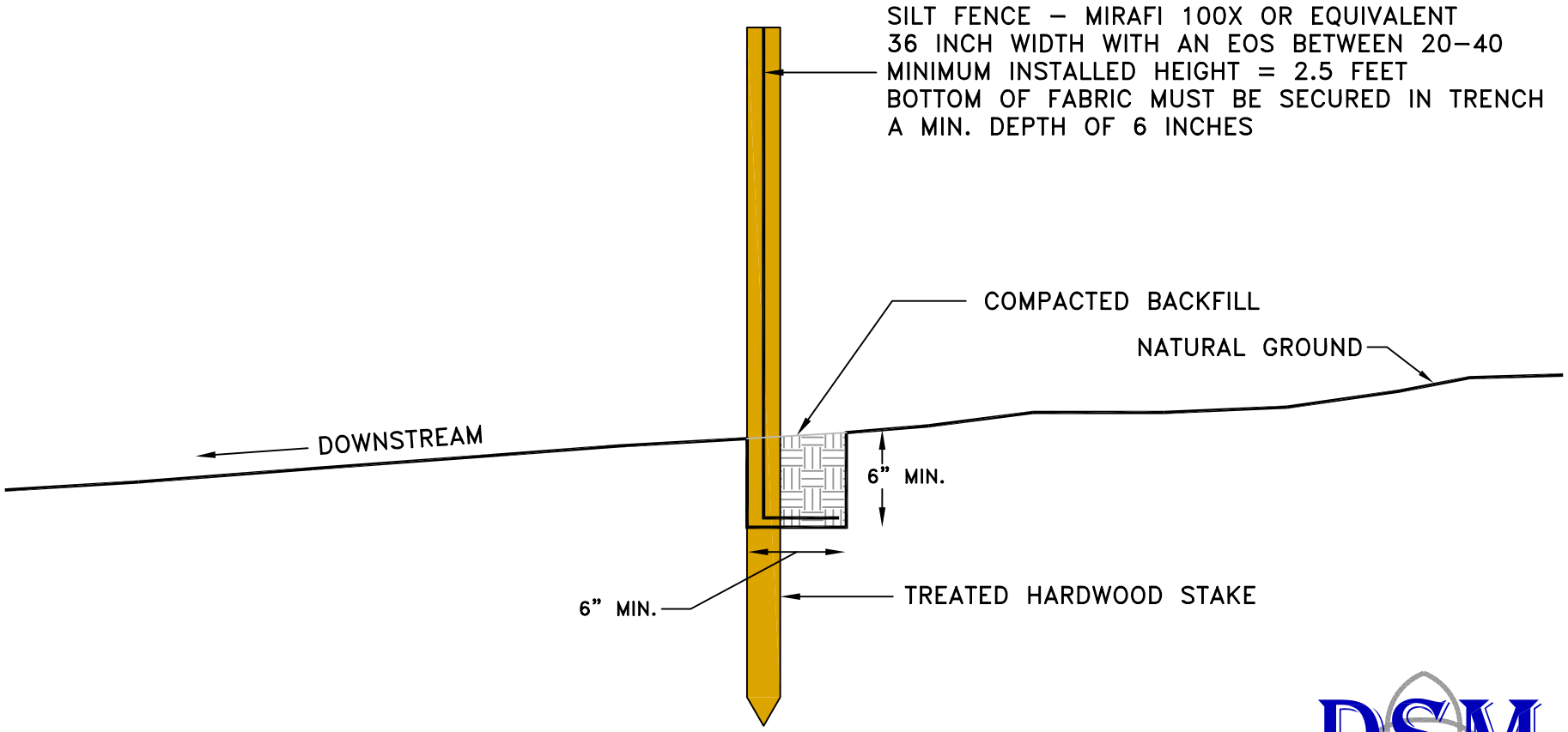
TYPICAL SILT FENCE CONSTRUCTION LAYOUT



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product

Mirafi® X-Series Woven Polypropylene Geotextiles

for Sediment Control, Soil Separation, and Road Base Stabilization

Mirafi® Construction Products offers a wide range of woven and nonwoven geotextiles for paving and soil reinforcement applications. These fabrics are cost-effective geosynthetic elements which improve and enhance modern construction techniques.

PRODUCT DESCRIPTION

Mirafi® X-Series products are woven geotextiles comprised of UV stabilized polypropylene slit film. Mirafi® X-Series Woven Polypropylene Geotextiles provide excellent puncture and tear resistant properties in addition to high tensile strengths.

Mirafi® X- Series Products:

- Mirafi® Envirofence
- Mirafi® Silt Fence
- Mirafi® 100X, 100CX
- Mirafi® 500X, 600X

FEATURES AND BENEFITS

- **Construction.** Woven construction offers excellent resistance to installation abuse.
- **Strength.** High modulus provide outstanding performance in a wide range of applications.
- **Flow.** Uniform openings provide excellent filtration and flow characteristics.
- **Fabrication.** Mirafi® Silt Fence is prefabricated using Mirafi® 100X geotextile and 3.2 cm (1.25") nominal square hardwood posts. Mirafi® Silt Fence is available with 2.5 m (8.3') or 3 m (10') post spacings.

  Mirafi® Envirofence is prefabricated using Mirafi® 100X, 3.2 cm (1.25") nominal square hardwood posts, and a net backing for additional support. All Mirafi® prefabricated silt fence products are ready for immediate installation upon delivery.

APPLICATIONS

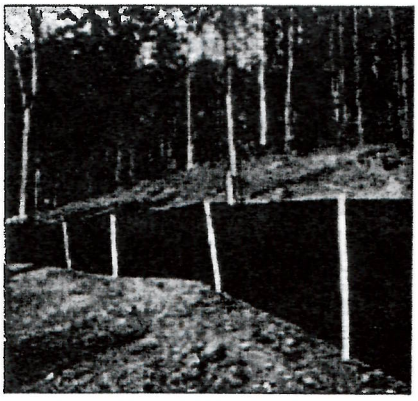
Mirafi® 100X is predominantly used for sediment control applications. Fine-grained sediment is trapped by the geotextile while storm water run-off passes through at a moderate rate.

Mirafi® 500X applications include separation under parking lots, residential streets, and roadways. Mirafi® 500X is used over good to moderate strength subgrades for separation and confinement of base materials. Mirafi® 500X is also utilized over moderate to poor subgrades for separation, confinement, and stabilization of base material. Mirafi® 500X meets AASHTO M288-96 Specifications for Stabilization and Separation - Class 3.

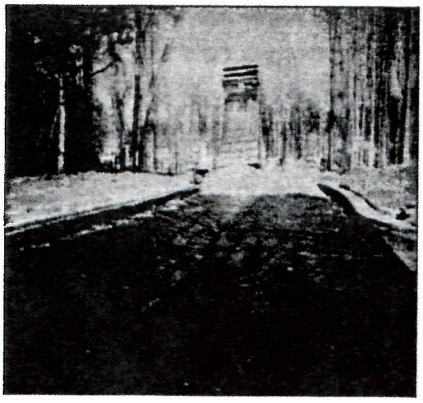
Mirafi® 600X is used for separation and stabilization over very weak subgrades; and separation, confinement, and reinforcement for critical roadways and site construction where very coarse, angular, and abrasive base material is required. Mirafi® 600X provides stabilization and reinforcement when heavy loads are expected. Mirafi® 600X meets AASHTO M288-96 Specifications for Stabilization and Separation - Class 1.

Mirafi® 500X/600X geotextiles were developed to improve the economics and performance of roadway systems by reducing the amount of aggregate required, increasing the design life and reducing the maintenance cost, preventing periodic overstressing of the subgrade, and eliminating costly project delays by allowing all-weather construction.

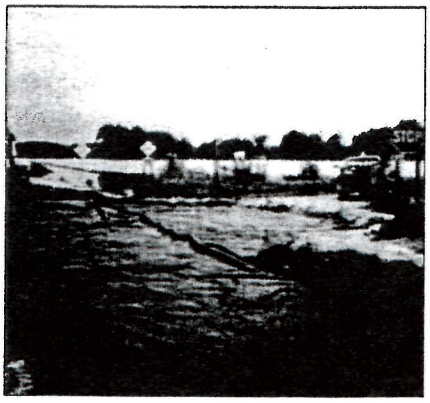
In addition, panels can be sewn together in the factory or in the field, providing cross-roll direction strength to facilitate installation, and providing reinforcement strength.



Mirafi® Silt Fence with posts used for sedimentation control



Mirafi® 500X used for separation under residential street



Mirafi® 600X used for stabilization in roadway repair

Ten Cate Nicolon

Technical Data MIRAFI

Innovative Geosynthetics

product

Mirafi® X-Series Woven Polypropylene Geotextiles

for Sedimentation Control, Soil Separation, and Road Base Stabilization

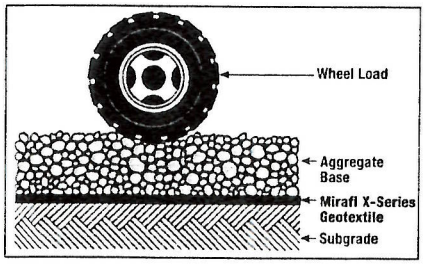
Mirafi® X-Series Technical Data

Property	Test Method	Units	100X	500XL	500X	600X
Grab Tensile Strength[1]	ASTM D 4632	kN (lbs)	0.55 (124)	0.62 (140)	0.90 (200)	1.40 (315)
Grab Tensile Elongation	ASTM D 4632	% MD / CD	15 / 15	15 / 10	15 / 10	15 / 10
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.29 (65)	0.20 (45)	0.33 (75)	0.53 (120)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	2060 (300)	2240 (325)	2756 (400)	4134 (600)
Puncture Strength	ASTM D 4833	kN (lbs)	0.27 (60)	0.29 (65)	0.40 (90)	0.53 (120)
UV Resistant after 500 hours	ASTM D 4355	% Strength	70	70	70	70
Apparent Opening Size	ASTM D 4751	mm (US Sieve)	0.60 (30)	0.60 (30)	0.30 (50)	0.425 (40)
Permittivity	ASTM D 4491	sec^{-1}	0.1	0.05	0.05	0.05

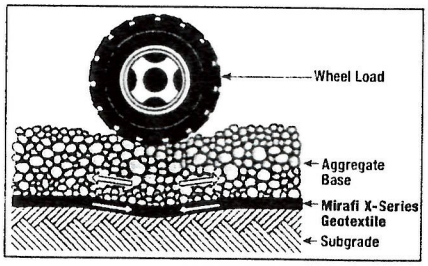
[1] *Values apply to both machine and cross-machine directions*

Packaging					
Roll Width	m (ft)	0.9 (3)	3.8 (12.5)	3.8 (12.5) 5.3 (17.5)	3.8 (12.5) 5.3 (17.5)
Roll Length	m (ft)	100 (330)	154 (504)	132 (432) 94.2 (309)	110 (360) 78.7 (258)
Est. Gross Weight	kg (lbs)	12 (26)	89 (195)	95 (210)	109 (240)
Roll Area	m^2 (yd^2)	92 (110)	585 (700)	502 (600)	418 (500)

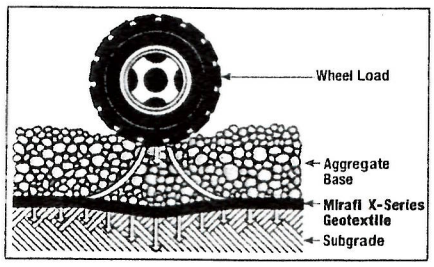
Subgrade/Aggregate Separation



Aggregate Confinement



Subgrade Load Distribution



For more information: www.mirafi.com

WARRANTY

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ABOUT US

MIRAFI® Construction Products is a division of Ten Cate Nicolon USA. MIRAFI® is a proud member of IFAI and GMA. Ten Cate Nicolon USA is a registered ISO9001:2000 company

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