

## Miramesh® Biaxial Geosynthetics for Green Slope Applications

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 Miramesh® Biaxial Geosynthetics Make:

### Miramesh® GR

Miramesh® GR is an open mesh, biaxial geosynthetic designed specifically to be a face wrap material for steepened slope applications.

- **Strength.** Biaxial strength to provide uniform design strengths and facilitate one layer installation for secondary reinforcement and face erosion protection.
- **Vegetation Support.** Vegetation testing shows Miramesh® GR performs better than biaxial geogrids and geotextiles in providing a suitable platform for vegetation. The uniquely designed aperture construction allows for retention of soil particles, while encouraging vegetation growth.
- **Color.** Grass green color designed to provide instant green appearance.
- **Flexible.** Easily conforms to the slope face to provide a stable platform for vegetation.

### Miramesh® SG

Miramesh® SG combines the Miramesh® GR biaxial geosynthetic with synthetic grass green fibers to produce a finished grass face without the need for vegetation.

- **Stability.** Synthetic grass fibers provide an extra layer of UV-protection increasing the long term resistance.
- **Vegetated Face.** Miramesh® SG eliminates the need for topsoil infill by immediately creating a finished vegetated face.

### APPLICATIONS

Miramesh® provides surface erosion protection and secondary reinforcement. The erosion protection facilitates establishment of vegetation and provides structural support for the forming of over-steepened slopes. The secondary reinforcement facilitates compaction and helps prevent surficial sloughing at the slope face.

The stability of a slope can be threatened by erosion due to surface water runoff, or more severe erosive forces associated with water currents and wave attack. Slope face erosion may create rills and gullies, and result in surface sloughing and possible deep-seated failure surfaces. Erosion control and vegetation measures are an integral part of all reinforced slope system designs and specifications.



Miramesh® GR Biaxial Geosynthetics



Miramesh® SG Synthetic Grass Face

### INSTALLATION GUIDELINES\*

When using Miramesh® geosynthetics as secondary reinforcement and slope erosion protection, the product is rolled out parallel to the slope face. Place the Miramesh® inside the welded wire basket and embed the product 1.2m (4ft) into the soil. Backfill in contact with the Miramesh® geosynthetic should be 300mm (1ft) of topsoil which allows for vegetation growth. After lift is complete, fold Miramesh® geosynthetic back over the backfill 0.7m (2.5ft). The slope face should be seeded per engineer's recommendations.

\* These guidelines serve as a general basis for installation. Detailed instructions are available from your TenCate™ representative.



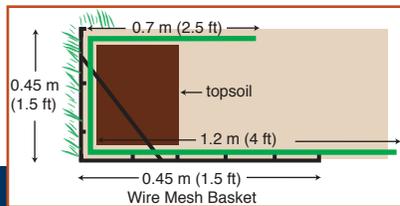
## Miramesh® Biaxial Geosynthetics for Green Slope Applications

Property	Test Method	Units	Miramesh® GR/SG (MD x CD)
Tensile Strength (at ultimate)	ASTM D4595	lbs/ft (kN/m)	1440 (21.0) x 1733 (25.3)
Creep Reduced Strength	ASTM D5262	lbs/ft (kN/m)	471 (6.9) x 566 (8.3)
Long Term Allowable Design Load	GRI GG-4	lbs/ft (kN/m)	407 (5.9) x 490 (7.2)
Aperture Size	-	in (mm)	0.08 (2) x 0.08 (2)
Color	-	-	Green
Life Expectancy	See Note <sup>2</sup> below	years	75/100

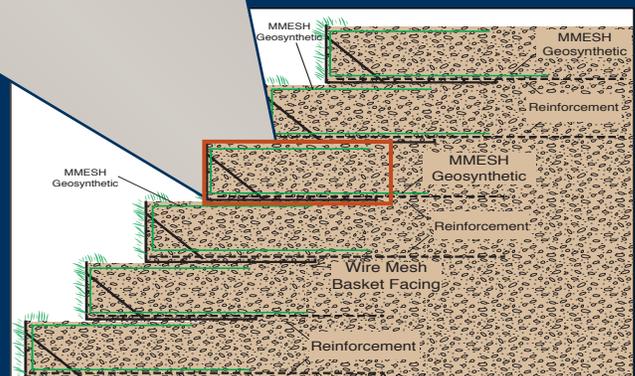
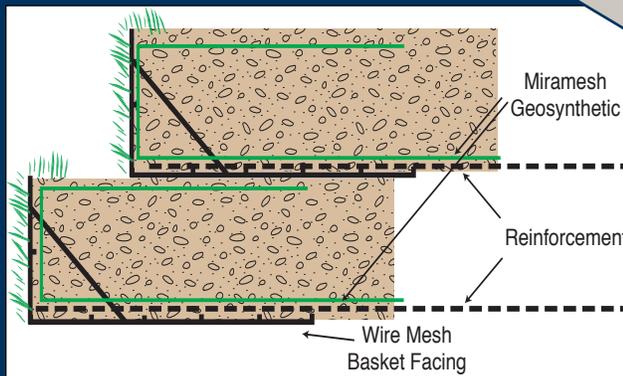
Packaging		GR	SG
Roll Width	ft (m)	8.0 (2.4)	8.0 (2.4)
Roll Length	ft (m)	150 (45.7)	50 (15)
Roll Weight	lbs (kg)	51 (23)	138 (63)
Roll Area	yd <sup>2</sup> (m <sup>2</sup> )	113 (110)	44 (37)

Note: Values shown are minimum average roll values.

Note<sup>2</sup>: Extrapolated from the average half life based on ASTM D7238 (QUV). Data also found on Mirafi® UV Durability Technical Note.



### Miramesh® Biaxial Geosynthetics



TenCate™ Geosynthetics North America assumes no liability for the accuracy or completeness of this information or for the ultimate use by the purchaser. TenCate™ Geosynthetics North America disclaims any and all express, implied, or statutory standards, warranties or guarantees, including without limitation any implied warranty as to merchantability or fitness for a particular purpose or arising from a course of dealing or usage of trade as to any equipment, materials, or information furnished herewith. This document should not be construed as engineering advice.

Mirafi® is a registered trademark of Nicolon Corporation.

© 2010 TenCate Geosynthetics North America

PDS.Miramesh1011

365 South Holland Drive Tel 800 685 9900 Fax 706 693 4400  
 Pendergrass, GA 30567 Tel 706 693 2226 www.mirafi.com

