



EROSION CONTROL PRODUCT DATA

FOR MORE INFORMATION

Information on the specification charts has been provided for comparative purposes only. Designers should contact manufacturers for additional details and to discuss site-specific considerations.

Information on the use and specification of erosion-control materials is available from the Geosynthetic Materials Association (GMA).

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PUBLISHER'S NOTE

All information included in this Specifier's Guide was compiled from information submitted by firms in the geosynthetics industry. Specifications were submitted voluntarily and their accuracy is the responsibility of the manufacturer. The appearance of a listing in this directory is not an endorsement of the company or product by *Geosynthetics* magazine or the Industrial Fabrics Association International (IFAI). The Specifier's Guide is intended as a guide, and *Geosynthetics* and IFAI encourage readers to contact the companies listed for further information.

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These products are designed to help solve erosion- and sediment-control problems and to provide long-term stabilization by establishing and maintaining vegetative cover.

Erosion-control products give engineers ready solutions for one of the fastest-growing design niches. Many of these products work with vegetation to form a biocomposite solution to erosion. The charts in this section are divided into degradable rolled erosion control products (RECPs), nondegradable RECPs, and a couple lines of hard armor.

Degradable products are used to enhance the establishment of vegetation, such as on a rehabilitated lakeshore or alongside a recently constructed roadway. These products are used where vegetation alone will provide sufficient site protection once the erosion-control product has degraded.

Nondegradable products provide long-term reinforcement of vegetation. They are used in more challenging erosion-control applications where immediate, high-performance erosion protection is required. The materials extend the erosion resistance of soil, rock, and other materials by permanently reinforcing the vegetative root structure.

The numbers

Companies that submitted product data chart lines were asked to provide data determined through industry-accepted testing methods. Companies signed a certificate of compliance verifying the accuracy of this data.

« *Geosynthetics* recommends you contact the manufacturers before making any specifying/purchasing decisions »

Product Name	RECP Type [1]	Composition			Performance/Design Values				Index Property
		Number of Nets	Net Type [2]	Matrix	Slope Applications		Channel Applications	Functional Longevity [4] (months)	Tensile Strength kN/m (lb/ft) ASTM D 5035
					Design "C" Factor (unvegetated)	Recommended maximum slope (H:V)	Design Shear Stress [3] Pa (lb/ft ²) (unvegetated)		
Belton Industries Inc. www.beltonindustries.com									
Anti-Wash Geojute	OWT	1	organic	woven jute	NA	2:1	215* (0.45)	12–24 months*	1.38 x 0.70* (300 x 175)*
Geojute Plus	OWT	1	organic	woven jute	NA	1:01	257* (5.38)	12–24 months*	13.1 x 3.36* (900 x 230)*
DeKowe 400	OWT	1	organic	woven coir (coconut fiber)	NA	2:01	149* (3.11)	>36 months*	7.9* (540)*
DeKowe 700	OWT	1	organic	woven coir (coconut fiber)	0.003*	1:01	213* (4.46)	>36 months*	19.3 x 12.2* (1320 x 840)*
DeKowe 900	OWT	1	organic	woven coir (coconut fiber)	0.002*	1:01	222* (4.64)	>36 months*	28.0 x 12.2* (1920 x 840)*
Eco-Jute	OWT	1	organic	woven jute	NA	3:01	NA	12–24 months*	NA
East Coast Erosion Control www.erosionblankets.com									
ECS-1/ECS-1D	ECB	1	synthetic	straw	0.024	3:1	72 (1.50)	3–12	1.8 x 1.2 (121 x 79)
ECS-2/ECS-2D	ECB	2	synthetic	straw	0.014	2:1	98 (2.05)	3–12	2.2 x 1.2 (150 x 80)
ECSC-2	ECB	2	synthetic	70% straw/30% coconut	0.017	1:1	108 (2.25)	24	2.6 x 2.2 (178 x 148)
ECC-2	ECB	2	synthetic	coconut	0.01	1:1	120 (2.50)	36	4.5 x 3.6 (310 x 250)
Propex Global www.geotextile.com									
Landlok CS2	ECB	2	synthetic	70% straw / 30% coconut	0.09	2H:1V	96 (2)	24 months	3.5 x 1.9 (240 x 132)
Landlok S2	ECB	2	synthetic	straw	0.21	3H:1V	96 (2)	12 months	2.8 x 1.7 (194 x 116)
Tensar International Corp. www.tensarcorp.com									
S75/DS75	ECB	single net	synthetic	straw	0.012	3:1	74 (1.55)	3–12	1.94 (131)
S150/DS150	ECB	double net	synthetic	straw	0.029	2:1	84 (1.75)	3–12	2.51 (169)
SC150	ECB	double net	synthetic	70% straw / 30% coconut	0.031	1:1	96 (2.00)	12–24	2.17 (147)
C125	ECB	double net	synthetic	coconut	0.036	1:1 and greater	108 (2.25)	24–36	4.36 (294)

[1] ECB = Erosion control blanket
 MCN = Mulch control nettings
 OWT = Open weave textile
 TRM = Turf reinforcement mat

[2] Synthetic or organic netting
 [3] For short duration (0.5 hour) peak flow events. For long duration flow design values, please contact the manufacturer.

[4] Longevity ranges:
 ≤ 3 months
 3 – 12 months
 12 – 24 months
 24 – 36 months
 > 36 months

* = typical
 Companies were requested to provide minimum average roll values (MARV). All claims are the responsibility of the manufacturer.

Product Name	RECP Type [1]	Composition			Performance/Design Values		Index Property		
		Number of Nets	Net Type [2]	Matrix	Slope Applications	Channel Applications	Thickness ASTM D 6525 mm (in)	Tensile Strength ASTM D 5035 kN/m (lb/ft)	UV Stability ASTM D 4355 (% tensile retention)
					Recommended max. slope (H:V)	Design Shear Stress [3] Pa (lb/ ft ²) (vegetated)			
ACE Geosynthetics Inc. www.geoace.com									
ACEFormer F250	AP (armour protection)	0 (woven)	synthetic	PET & PP	NA	NA	250 (10)	50 (3422) x 50 (3422)	
ACETube PP175-II	GTs (geotextile tube)	0 (woven)	synthetic	PP	NA	NA	NP	175 (11976) x 175 (11976)	
ACEMat R	TRM	0 (woven)	synthetic	3-D woven PP	NA	NA	7 (0.3)	45 (3080) x 30 (2053)	
Agru America Inc. www.agruamerica.com									
Agru HydroTurfTM	AP (armour protection)	1	synthetic	woven polypropelene with LLDPE membrane backing	1H:1V	574 (12)	31.75-50.80 (1.25-2.0)	MD 17.5 (1200) XD 11.7 (800)	60% minimum 30 year exposure
Bonar Inc. www.bonar.com									
Enkammat 7003	TRM	NA	NA	nylon	2:1	288 (6)	6.25 (0.25)	1.82 (125)	80 @ 2000 hrs
Enkammat 7010	TRM	NA	NA	nylon	1:1	384 (8)	7.5 (0.3)	2.19 (150)	80 @ 2000 hrs
Enkammat 7018	TRM	NA	NA	nylon	1:1	384 (8)	15.2 (0.6)	2.19 (150)	80 @ 2000 hrs
Enkammat 7020	TRM	NA	NA	nylon	0.5:1	816 (17)	15.2 (0.6)	2.55 (175)	80 @ 2000 hrs
Enkammat R45 (7520)	TRM	NA	NA	nylon	0.5:1	816 (17)	17.8 (0.7)	43.8 (3000)	80 @ 3000 hrs
East Coast Erosion Control www.erosionblankets.com									
ECP-210 oz	TRM	2	synthetic	polypropylene	>1:1	479 (10.0)	0.40 (10.2)	5.8 x 5.8 (400 x 400)	82
ECP-2	TRM	2	synthetic	polypropylene	>1:1	574 (12.0)	0.40 (10.2)	5.8 x 5.8 (400 x 400)	82
ECSC-3	TRM	3	synthetic	70% straw/ 30% coconut	>1:1	478 (10.0)	0.39 (9.9)	11.0 x 9.2 (756 x 632)	80
ECC-3	TRM	3	synthetic	coconut	>1:1	574 (12.0)	0.34 (8.6)	11.7 x 11.5 (802 x 790)	98
ECP-3	TRM	3	synthetic	polypropylene	>1:1	670 (14.0)	0.41 (10.4)	18.0 x 18.5 (1232 x 1270)	100
T-RECS	TRM	0 (Woven)	3-D woven PP	NA	>0.5:1	718 (15.0+)	0.45 (11.4)	43.8 x 43.8 (3000 x 3000)	90
Maccaferri Inc. www.maccaferri-usa.com									
MacMat N10	TRM	N/A	polypropylene	continuous monofilaments fused at their intersections	stable up to 1:1	0.38 (8)	7.5 (0.3)	2.2 (150)	80 @ 2000 hrs
MacMat N20	TRM	N/A	polypropylene	continuous monofilaments fused at their intersections	stable up to 1:1	0.38 (8)	15.2 (0.6)	2.6 (175)	80 @ 2000 hrs
MacMat R1 6822GN	TRM	N/A	polypropylene	double twiated hexagonal steel wire mesh with a polypropylene three simensional matrix geomat	0.6:1 (with soil nails)	—	12 (0.47)	31.3 (2143)	stabilized
MacMat R1 8127GN	TRM	N/A	polypropylene	double twiated hexagonal steel wire mesh with a Polypropylene three dimensional matrix geomat	0.6:1 (with soil nails)	—	12 (0.47)	41.7 (2860)	stabilized

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[4] = 1000 hrs exposure
[5] = 3000 hrs exposure
Companies were requested to provide minimum average roll values (MARV). All claims are the responsibility of the manufacturer.

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					Slope Applications	Channel Applications	Thickness ASTM D 6525 mm (in)	Tensile Strength ASTM D 5035 kN/m (lb/ft)	UV Stability ASTM D 4355 (% tensile retention)
		Number of Nets	Net Type [2]	Matrix	Recommended max. slope (H:V)	Design Shear Stress [3] Pa (lb/ ft ²) (vegetated)			
Propex Global www.geotextile.com									
Landlok 450	TRM	2	synthetic	PP	1.5:1	479 (10)	10.2 (0.4)	5.8 x 4.3 (400 x 300)	80 [4]
Landlok 300	TRM	0 (woven)	NA	3-D woven PP	1:1	576 (12)	7.6 (0.3)	37.23 x 35.62 (2550 x 2440)	90 [5]
Landlok 3000	TRM	0 (woven)	NA	3-D woven PP	0.5:1	671 (14)	7.6 (0.3)	46.7 x 43.8 (3200 x 3000)	90 [5]
Pyramat	HPTRM	0 (woven)	NA	3-D woven PP	0.5:1	766 (16)	10.2 (0.4)	59.8 x 43.8 (4100 x 3000)	90 [5]
TechFab India www.techfabindia.com									
Gabion Mattress 3m x 1m x 0.30m (Zinc +PVC)	ECB	double twisted net	8 x 10mm-steel wire mesh	NA	NA	NA	NA	NA	NA
Tensor International Corp. www.tensorcorp.com									
SC250	TRM	3 (center corrugated)	UV stabilized synthetic	70% straw/ 30% coconut	> 1:1	478 (10.0)	15.75 (0.62)	10.6 (712)	100%
C350	TRM	3 (center corrugated)	UV stabilized synthetic	coconut	> 1:1	574 (12.0)	18.54 (0.73)	10.2 (688)	86%
P550	TRM	3 (center corrugated)	UV stabilized synthetic	polypropylene	> 1:1	672 (14.0)	18.29 (0.72)	21.1 (1421)	100%
W3000	TRM	0 (woven)	NA	3-D woven poly	> 1:1	766 (16.0)	10.20 (0.40)	55.5 (3800)	>90%

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