

## FOR MORE INFORMATION

Geosynthetics magazine has provided information on the erosion control product specification charts for comparative purposes only. Designers should contact manufacturers for additional details and to discuss sitespecific considerations.

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

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## **PUBLISHER'S NOTE**

Geosynthetics magazine compiled all information included in the Geosynthetics 2020 Specifier's Guide from information submitted by firms in the geosynthetics industry. Companies provided specifications voluntarily, and specification 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 Geosynthetics 2020 Specifier's Guide is intended as a guide, and Geosynthetics magazine and IFAI encourage readers to contact the companies listed for further information.

Companies design these products to solve erosion and sediment control problems, and to provide long-term stabilization by establishing and maintaining vegetative cover.

rosion 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 (RECP), nondegradable RECP and 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.

Product Name	RECP Type [1]	Composition				Index Property					
					Slope Applications		Channel Applications	y [4]	E		
		Number of Nets	Net Type [2]	Matrix	Design "C" Factor (unvegetated)	Recommended maximum slope (H:V)	Design Shear Stress [3] Pa (lb/ft²) (unvegetated)	Functional Longevity [4] (months)	Tensile Strength kN/m (lb/ft) ASTM D 5035		
East Coast E	rosion Bla	nkets	www.erosionblar	nkets.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	3.79 x 2.55 (260 x 175)		
L & M Supply   www.landmsupplyco.com											
US-1S	ECB	1	Synthetic	Straw	0.05	3:1	77 (1.6)	12 months	2.3 (155)		
US-2S	ECB	2	Synthetic	Straw	0.04	2:1	86 (1.8)	12 months	3.2 (217)		
US-2SC	ECB	2	UV stabilized synthetic	70% straw/30% coconut	0.15	3:1	96 (2.0)	24 months	3.7 (254)		
US-2SCNN	ECB	2	Degradable organic	70% straw/30% coconut	0.05	3:1	96 (2.0)	24 months	3.9 (270)		
US-2C	ECB	2	UV stabilized synthetic	100% coconut	0.05	1.5:1	110 (2.3)	36 months	3.6 (245)		
US-2CNN	ECB	2	Degradable organic	100% coconut	0.05	1.5:1	134 (2.8)	36 months	4.3 (290)		
Nedia Enter	prises   w	ww.nedia.d	com								
BioJute 500	OWT	1	organic	woven jute	NA	2:1	NA	12-24 months*	18.6 x 14.9* (1272 x 1020)*		
KoirMat 700	OWT	1	organic	woven coir (coconut fiber)	0.002*	1:1	215 (4.5)*	>36 months*	22.06 x 15.05* (1512 x 1032)*		
KoirMat 900	OWT	1	organic	woven coir (coconut fiber)	0.003*	1:1	239 (5.0)*	>36 months*	27.7 x 20.6* (1968 x 1416)*		
KoirWrap 1200	OWT	2	organic	woven coir (coconut fiber) & jute	NA	1:1	239 (5.0)*	>36 months*	27.7 x 20.6* (1968 x 1416)*		
KoirWrap 1000	OWT	2	organic	woven coir (coconut fiber) & jute	NA	1:1	215 (4.5)*	>36 months*	14.7 x 13.7* (1008 x 936)*		
Propex Geo	Solutions	www.pr	opexglobal.com								
LANDLOK® S2	ECB	2	Synthetic	Straw	0.035	3	96 (2)	up to 12 months	2.8 x 1.7 (194 x 116)		
LANDLOK® CS2	ECB	2	Synthetic	70% straw/30% coconut	0.023	2	96 (2)	up to 24 months	3.5 x 1.9 (241 x 132)		
LANDLOK® C2	ECB	2	Synthetic	Coconut	0.026	1	96 (2)	up to 36 months	3.7 x 2.6		

[1] ECB = Erosion control blanket MCN = Mulch control nettings OWT

= Open weave textile = Turf reinforcement mat

Synthetic or organic netting
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

> 36 months

24 – 36 months

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

## NONDEGRADABLE RECPS EROSION CONTROL

		Composition			Performance/Design Values		Index Property		
					Slope Applications	Channel Applications			
Product Name	RECP Type [1]	Number of Nets	Net Type [2]	Matrix	Recommended max. slope (H:V)	Design Shear Stress [3] Pa (lb/ ft2) (vegetated)	Thickness ASTM D 6525 mm (in)	Tensile Strength ASTM D 5035 kN/m (lb/ft)	UV Stability ASTM D 4355 (% tensile retention)
ACE Geosy	nthetics Inc	. www.g	eoace.com						
ACEFormer	AP (armour protection)	0 (woven)	Synthetic	PET/PET	NA	NA	600 (24)	60 x 60 (4106 x 4106)	
ACETube PP250-II (Black / Tan)	GTs (geotextile tube)	0 (woven)	Synthetic	PP	NA	NA	NP	250 x 250 (17124 x 17124)	
ACEMat R III	TRM	0 (woven)	Synthetic	3-D woven PP	NA	NA	10 (0.4)	60 x 50 (4110 x 3425)	
<b>East Coast</b>	Erosion Bla	nkets   v	vww.erosionblanke	ets.com					
ECP-210 oz	TRM	2	Synthetic	Polypropylene	>1:1	479 (10.0)	.40 (10.2)	5.4 x 4.6 (370 x 315)	82
ECP-2	TRM	2	Synthetic	Polypropylene	>1:1	574 (12.0)	.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)	.39 (9.9)	10.6 x 9.2 (728 x 632)	80
ECC-3	TRM	3	Synthetic	Coconut	>1:1	574 (12.0)	.34 (8.6)	11.7 x 9.4 (802 x 643)	98
ECP-3	TRM	3	Synthetic	Polypropylene	>1:1	670 (14.0)	.41 (10.4)	18.0 x 17.4 (1232 x 1192)	100
T-RECS	TRM	0 (Woven)	3-D woven PP	NA	>0.5:1	718 (15.0+)	.45 (11.4)	43.8 x 43.8 (3000 x 3000)	91
Hanes Geo	Componer	nts   www	.hanesgeo.com						
ScourStop transition mat	Transition mat	NA	NA	HDPE semi-rigid mat with 50% open area	NA	NA	11.7 (.46)	NA	87
L & M Supp	oly   www.lar	ndmsupplyc	o.com						
US-2P10	TRM	2	Black UV stabilized polypropylene	Synthetic	>1:1	574 (12)	8.9 (0.35)	5.1 x 4.1 (348 x 283)	100
Low & Bon	ar Inc.   ww	w.lowandbo	onar.com						
Enkamat 7003	TRM	NA	NA	Nylon	2:1	288 (6)	6.25 (0.25)	1.8 (125)	80 @ 2000 hrs
Enkamat 7010	TRM	NA	NA	Nylon	1:1	384 (0.3)	7.5 (0.3)	1.8 (125)	80 @ 2000 hrs
Enkamat 7020	TRM	NA	NA	Nylon	0.5:1	816 (17)	15.2 (0.6)	2.6 (175)	80 @ 2000 hrs
Enkamat R45 (7520)	TRM	NA	NA	Nylon	0.5:1	816 (17)	17.8 (0.7)	45 (3000)	80 @ 3000 hrs
Enkamat A20	TRM	NA	NA	Nylon/bituminous membrane	0.5:1	NA	22 MM	NA	NA

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 <sup>[4] = 1000</sup> 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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Maccaferri Inc.   www.maccaferri.com/us										
MacMat R1 6822G0	TRM	1	Double twist hexagonal steel wire mesh with a PoliMac coating	3D PP	0.6:1 (with soil nails)		12 (0.47)	31.3 (2143)	Stabilized	
MacMat R1 8127G0	TRM	1	Double twist hexagonal steel wire mesh with a PoliMac coating	3D PP	0.6:1 (with soil nails)		12 (0.47)	41.7 (2860)	Stabilized	
Propex GeoSolutions   www.propexglobal.com										
LANDLOK® 450	TRM	2	Synthetic	PP	up to 1.5:1.0	479 (10)	12.7 (0.50)	6.2 x 5.1 (425 x 350)	80% @ 1,000 hrs	
PYRAMAT® 25	TRM	0 (woven)	NA	3-D woven PP	up to 1.0:1.0	575 (12)	6.35 (0.25)	29.2 x 26.3 (2,000 x 1,800)	90% @ 3,000 hrs	
PYRAMAT® 75	HPTRM	0 (woven)	NA	3-D woven PP	up to 0.5:1.0	766 (16)	10.16 (0.40)	58.4 x 43.8 (4,000 x 3,000)	90% @ 6,000 hrs	
TechFab India   www.techfabindia.com										
Gabion Mattress 3mx1mx0.30m (Zinc + PVC)	ECB	Double twisted net	8x10mm-steel wire mesh	NA	NA	NA	NA	NA	NA	
Typar Geos	ynthetics   www.typargeosynthetics.com									
GrassProtecta	Transition Mat	NA	NA	HDPE flexible mat with 50% open area	0.5:1	>589.17 (>12.3)	10.92 (.43)	12 (826)	100	
Willacooch	Willacoochee Industrial Fabrics Inc.   www.winfabusa.com									
WINFAB DIAMONDBACK 2018	TRM	0 (woven)	NA	3-D woven PP	0.5:1	576 (12)	6.4 (.25)	36.48 x 29.18 (2,500 x 2,000)	90% @ 3,000 hours	
WINFAB DIAMONDBACK 4030	HPTRM	0 (woven)	NA	3-D woven PP	0.5:1	768 (16)	7.62 (.30)	59.81 x 45.23 (4,100 x 3,100)	95% @ 3,000 hours	

= Open weave textile = Turf reinforcement mat  [4] = 1000 hrs exposure
[5] = 3000 hrs exposure
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