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).

GMA
1801 County Rd B West
Roseville, MN 55113-4061 USA
+1 651 225 6907
fax +1 651 631 9334
amaho@ifai.com
www.gmanow.com

Further, readers may contact the
Erosion Control Technology Council:
PO Box 18012
St. Paul, MN 55118-0012 USA
+1 651 554 1895
fax +1 651 450 6167
laurie@honnigford.com
www.ectc.org

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.

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 construction 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			Performance/Design Values				Index Property
					Slope Applications		Channel Applications		
		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
Belton Industries Inc. | www.beltonindustries.com									
Anti-Wash Geojute	OWT	1	organic	woven jute	NA	2:01	21.5* (0.45)	12–24 months*	1.38x0.70* (300x175)*
Geojute Plus	OWT	1	organic	woven jute	NA	1:01	257* (5.38)	12–24 months*	13.1x3.36* (900x230)*
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*	19.3x12.2* (1320x840)*
DeKowe 900	OWT	1	organic	woven coir (coconut fiber)	0.002*	1:01	222* (4.64)	>36 months*	28.0x12.2* (1920x840)*
Eco-Jute	OWT	1	organic	woven jute	NA	3:01	NA	12–24 months*	NA
East Coast Erosion Blankets | www.erosionblankets.com									
ECS-1	ECB	1	synthetic	straw	0.024	3:1	72 (1.50)	12	1.8x1.2 (121x79)
ECS-1D	ECB	1	rapid degradable synthetic	straw	0.024	3:1	72 (1.50)	1.5-3	1.8x1.2 (121x79)
ECS-1B	ECB	1	organic	straw	0.075	3:1	74 (1.55)	12	1.5x1.7 (106x118)
ECS-2	ECB	2	synthetic	straw	0.014	2:1	98 (2.05)	12	2.5x1.6 (169x107)
ECS-2D	ECB	2	rapid degradable synthetic	straw	0.014	2:1	98 (2.05)	1.5-3	2.5x1.6 (169x107)
ECS-2B	ECB	2	organic	straw	0.016	2:1	83 (1.73)	12	2.8x1.9 (190x130)
ECX-1	ECB	1	synthetic	excelsior	0.034	2:1	85 (1.78)	12	1.8x1.5 (122x100)
ECX-2	ECB	2	synthetic	excelsior	0.035	1.5:1	102 (2.13)	24	2.5x2.0 (169x135)
ECSC-2	ECB	2	synthetic	70% straw/30% coconut	0.017	1:1	125 (2.60)	24	2.6x2.2 (178x148)
ECSC-2B	ECB	2	organic	70% straw/30% coconut	0.055	1:1	96 (2.0)	18	3.3x2.0 (223x134)
ECC-2	ECB	2	synthetic	coconut	0.01	1:1	110 (2.3)	36	4.5x3.6 (310x250)
ECC-2B	ECB	2	organic	coconut	0.04	1:1	108 (2.25)	24	3.5x2.4 (240x164)
L&M Supply Co. Inc. | www.landmsupplyco.com									
US-1S	ECB	1	Synthetic	Straw	0.05	3:1	77(1.6)	12 mos.	2.3x1.4 (155x96)
US-2S	ECB	2	Synthetic	Straw	0.04	2:1	86(1.8)	12 mos.	3.2x1.9 (217x128)
US-1X	ECB	1	Synthetic	100% Aspen	0.08	2:1	85(1.77)	15 mos.	1.8x1.0 (122x67)
US-2X	ECB	2	Synthetic	100% Aspen	0.04	2:1	100(2.12)	18-24 mos.	1.8x1.0 (122x67)
US-2SC	ECB	2	UV Stabilized Synthetic	70%Straw/30%Coconut	0.15	3:1	96(2.0)	24 mos.	3.7x2.4 (254x167)
US-2SCNN	ECB	2	Degradable Organic	70%Straw/30%Coconut	0.05	3:1	96(2.0)	24 mos.	3.9x2.9 (270x195)
US-2C	ECB	2	UV Stabilized Synthetic	100% Coconut	0.05	1.5:1	110(2.3)	36 mos.	3.6x4.4 (245x304)
US-2CNN	ECB	2	Degradable Organic	100% Coconut	0.05	1.5:1	134(2.8)	36 mos.	4.3x3.5 (290x240)

[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.

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Product Name	RECP Type [1]	Composition			Performance/Design Values				Index Property
					Slope Applications		Channel Applications		
		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
Maccaferri Inc. | www.maccaferri-usa.com									
BioMac S2	ECB	Double Net	Degradable Synthetic	100% Wheat Straw	0.014	2:1	98 (2.05)	12	NP
BioMac SC2	ECB	Double Net	Degradable Synthetic	70% Wheat Straw / 30% Coconut	NP	1:1	103 (2.15)	24	NP
BioMac C	ECB	Double Net	Degradable Synthetic	100% Coconut	0.09	1:1	110 (2.3)	36	NP
BioMac E1	ECB	Double Net	Degradable Synthetic	100% Excelsior	0.034	2:1	85 (1.78)	12	NP
BioMac E2	ECB	Double Net	Degradable Synthetic	100% Excelsior	0.035	1.5:1	102 (2.13)	24	NP
Western Excelsior Corp. | www westernexcelsior.com									
Excel SR-1	ECB	Single Net	Degradable Synthetic	Straw	0.05	3:1	77 (1.6)	Approximately 12 months	0.8 (58)
Excel SR-1 All Natural	ECB	Single Net	Degradable Organic	Straw	0.05	3:1	77 (1.6)	Approximately 12 months	1.1 (76)
Excel SR-1 Rapid Go	ECB	Single Net	Rapid Degradable Synthetic	Straw	0.05	3:1	77 (1.6)	Approximately 45 - 90 days	0.9 (64)
Tackmats	Ehanced ECB	Single Net	Degradable Synthetic	Straw	0.05	2:1	77 (1.6)	Approximately 12 months	0.8 (58)
Tackmats All Natural	Ehanced ECB	Single Net	Degradable Organic	Straw	0.05	2:1	77 (1.6)	Approximately 12 months	1.1 (76)
Tackmats Rapid Go	Ehanced ECB	Single Net	Rapid Degradable Synthetic	Straw	0.05	2:1	77 (1.6)	Approximately 45 - 90 days	0.9 (64)
Excel R-1	ECB	Single Net	Degradable Synthetic	Excelsior	0.08	2:1	77 (1.6)	Approximately 15 months	0.9 (60)
Excel R-1 All Natural	ECB	Single Net	Degradable Organic	Excelsior	0.08	2:1	77 (1.6)	Approximately 15 months	1.1 (76)
Excel R-1 Rapid Go	ECB	Single Net	Rapid Degradable Synthetic	Excelsior	0.08	2:1	77 (1.6)	Approximately 45 - 90 days	0.9 (60)
Tackmatx	Ehanced ECB	Single Net	Degradable Synthetic	Excelsior	0.03	1.5:1	77 (1.6)	Approximately 15 months	0.8 (58)
Tackmatx All Natural	Ehanced ECB	Single Net	Degradable Organic	Excelsior	0.03	1.5:1	77 (1.6)	Approximately 15 months	1.1 (76)
Tackmatx Rapid Go	Ehanced ECB	Single Net	Degradable Synthetic	Excelsior	0.03	1.5:1	77 (1.6)	Approximately 45 - 90 days	0.9 (60)
Excel SS-2	ECB	Double Net	Degradable Synthetic	Straw	0.04	2:1	86 (1.8)	Approximately 12 months	1.7 (116)
Excel SS-2 All Natural	ECB	Double Net	Degradable Organic	Straw	0.04	2:1	91 (1.9)	Approximately 12 months	2.2 (152)
Excel SS-2 Rapid Go	ECB	Double Net	Rapid Degradable Synthetic	Straw	0.04	2:1	86 (1.8)	Approximately 45 - 90 days	1.9 (128)
Excel S-2	ECB	Double Net	Degradable Synthetic	Excelsior	0.04	2:1	96 (2.0)	Approximately 18 - 24 months	1.8 (120)
Excel S-2 All Natural	ECB	Double Net	Degradable Organic	Excelsior	0.04	2:1	110 (2.3)	Approximately 24 months	2.2 (152)
Excel S-2 Rapid Go	ECB	Double Net	Rapid Degradable Synthetic	Excelsior	0.04	2:1	96 (2.0)	Approximately 45 - 90 days	1.8 (120)
Excel CS-3	ECB	Double Net	UV Stabilized Synthetic	70% Straw/30% Coconut	0.15	3:1	77 (1.6)	Approximately 24 months	2.5 (170)
Excel CS-3 All Natural	ECB	Double Net	Degradable Organic	70% Straw/30% Coconut	0.05	3:1	77 (1.6)	Approximately 24 months	2.2 (152)
Excel SD-3	ECB	Double Net	UV Stabilized Synthetic	Heavy Duty Excelsior	0.05	2:1	134 (2.8)	Approximately 24 months	3.3 (224)
Excel CC-4	ECB	Double Net	UV Stabilized Synthetic	100% Coconut	0.05	1.5:1	110 (2.3)	Approximately 36 months	3.3 (224)
Excel CC-4 All Natural	ECB	Double Net	Degradable Organic	100% Coconut	0.05	1.5:1	134 (2.8)	Approximately 36 months	2.2 (152)

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Product Name	RECP Type [1]	Composition			Performance/Design Values		Index Property		
					Slope Applications	Channel Applications			
		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 Geosynthetics Inc. | www.geoace.com									
ACEFormer V200	ECB	2	Synthetic	PET&PP	NP	NP	200 (8)	50 (3422) x 50 (3422)	
ACETube	ECB	2	Synthetic	PP	NP	NP	2300 (90)	70 (4791) x 105 (7186)	
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
Colbond Inc. | www.colbond-usa.com									
Enkamat 7003	TRM	NA	NA	nylon	2:01	288 (6)	6.25 (0.25)	1.82 (125)	80 @ 2000 hrs
Enkamat 7010	TRM	NA	NA	nylon	1:01	384 (8)	10 (0.4)	2.19 (150)	80 @ 2000 hrs
Enkamat 7018	TRM	NA	NA	nylon	1:01	432 (9)	16.7 (0.65)	2.19 (150)	80 @ 2000 hrs
Enkamat 7020	TRM	NA	NA	nylon	0.5:1	816 (17)	19.3 (0.75)	2.55 (175)	80 @ 2000 hrs
Enkamat R45 (7520)	TRM	NA	NA	nylon	0.5:1	816 (17)	19.3 (0.75)	43.8 (3000)	80 @ 2000 hrs
East Coast Erosion Blankets | www.erosionblankets.com									
ECP-2	TRM	2	synthetic	polypropylene	>1:1	574 (12.0)	.40 (10.2)	5.8x5.8 (400x400)	82
ECSC-3	TRM	3	synthetic	70% straw/30% coconut	>1:1	478 (10.0)	.39 (9.9)	11.0x9.2(756x632)	80
ECC-3	TRM	3	synthetic	coconut	>1:1	574 (12.0)	.34 (8.6)	11.7x11.5(802x790)	80
ECP-3	TRM	3	synthetic	polypropylene	>1:1	670 (14.0)	.41 (10.4)	18.0x18.5(1232x1270)	100
ECP-210 oz	TRM	2	synthetic	polypropylene	>1:1	384 (8.0)	.40 (10.2)	5.8x4.2(400x289)	82
T-RECS	TRM	0 (Woven)	3-D Woven PP	NA	>0.5:1	718 (15.0)	.45 (11.4)	43.8x43.8(3000x3000)	94
L&M Supply Co. Inc. | www.landmsupplyco.com									
US-2P8	TRM	2	Black UV Stabilized Polypropylene	Synthetic	2:1	287 (6)	8.6 (0.34)	4.4x3.4 (302x236)	100
US-2P10	TRM	2	Black UV Stabilized Polypropylene	Synthetic	>1:1	574 (12)	8.9 (0.35)	5.1x4.1 (348x283)	100
US-2P12	TRM	2	Black UV Stabilized Polypropylene	Synthetic	>1:1	574 (12)	11.5 (0.45)	5.3x3.9 (361x266)	100
Maccaferri Inc. | www.maccaferri-usa.com									
MacMat N10	TRM	NA	UV-Stabilized Synthetic	Nylon	1:1	384 (8)	10 (0.4)	2.3 (160)	80 [4]
MacMat N20	TRM	NA	UV-Stabilized Synthetic	Nylon	1:1	480 (10)	19 (0.75)	3.5 (240)	80 [4]
MacMat R6	TRM	NA	UV-Stabilized Synthetic	3D-Composite	0.5:1	NP	10.2 (0.4)	35 (2398)	UV-Stabilized
MacMat R8	TRM	NA	UV-Stabilized Synthetic	3D-Composite	0.5:1	NP	20.0 (0.8)	51 (3500)	UV-Stabilized

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[4] = 1000 hrs exposure

[5] = 3000 hrs exposure

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Profile Products | www.profileproducts.com									
Futerra Revegetation Blanket	ECB	1	synthetic	composite of wood & man-made fibers	0.03	2:1	NA	< 3 months	NA
Futerra Netless	ECB	None	NA	composite of wood & man-made fibers	0.02	2:1	NA	3-12 months	NA
Propex Geosynthetics | 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)	35.0 x 29.2 (2400 x 2000)	90 [5]
Pyramat	HPTRM	0 (Woven)	NA	3-D woven PP	0.5:1	766 (16)	10.2 (0.4)	58.4 x 43.8 (4000 x 3000)	90 [5]
SYNTEC | www.synteccorp.com									
ScourShield	TRM	1	Synthetic	HDPE	N/A	N/A	6.7 (0.27)	22 x 22 (1500 x 1500)	5 year min
Western Excelsior Corp. | www westernexcelsior.com									
PP5-8 oz.	Standard TRM	Double Net	Polypropylene	Synthetic	2:1	6	8.6	3.6 (250)	100
PP5-10 oz.	Standard TRM	Double Net	Polypropylene	Synthetic	>1:1	12	9.2	3.6 (250)	100
PP5-12 oz.	Standard TRM	Double Net	Polypropylene	Synthetic	>1:1	12	9.6	3.6 (250)	100
PP5-Heavy Duty	Woven TRM	N/A	N/A	Synthetic	>1:1	17	6.4	36 (2500)	100
PP5-Xtreme	High Performance TRM	N/A	N/A	Synthetic	>1:1	17	7.6	53 (4000)	100

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