American Excelsior Company®
Earth Science Division

Proud Participant in NTPEP and Proud Member of:

PRODUCT DATA SHEET
TRINET® CURLEX®

DESCRIPTION

TriNet Curlex a three dimensional biocomposite Turf Reinforcement Mat (TRM) that consists of a specific cut of naturally seed free Great Lakes Aspen curled wood excelsior with 80% six-inch fibers or greater fiber length. It is of consistent thickness with fibers evenly distributed throughout the entire area of the blanket. The top, middle, and bottom nets of each TRM are stitched together forming a permanent three dimensional TRM. TriNet Curlex shall be manufactured in the U.S.A.

TriNet Curlex has a design soil loss ratio (event-based RUSLE C factor) of .031 and is typically suitable for slopes up to .5H:1V. TriNet Curlex is rated for channel flows up to 20.0 ft/s (6.1 m/s) and 13 lb/ft^2 (622 Pa) shear stress.

PHYSICAL PROPERTIES

TriNet Curlex measurements at time of manufacturing:

Width		8.0 ft (2.4 m)	16.0 ft (4.9 m)
Length		67.5 ft (20.6 m)	67.5 ft (20.6 m)
Area		60.0 yd² (50.2 m²)	120.0 yd² (100.34 m²)
Weight[a]		74.34 lb (33.72 kg)	148.68 lb (67.44 kg)
Fiber Count		≈ 7,000 per yd² (≈ 8,400 per m²)	≈ 7,000 per yd² (≈ 8,400 per m²)
Fiber Length (80% min.)		≈ 6.0 in (≈ 15.2 cm)	≈ 6.0 in (≈ 15.2 cm)
Curlex Fiber Matrix (± 10%)		0.730 lb/yd² (0.396 kg/m²)	0.73 lb/yd² (0.396 kg/m²)
Product Weight (± 10%)		1.239 lb/yd² (0.672 kg/m²)	1.239 lb/yd² (0.672 kg/m²)
Net Openings	Top - Ultra Heavy Duty Polypropylene (UV-Stabilized)	0.45 in x 0.58 in (11.43 mm x 14.73 mm)	0.45 in x 0.58 in (11.43 mm x 14.73 mm)
	Middle - Ultra Heavy Duty Polypropylene (UV-Stabilized)	0.45 in x 0.58 in (11.43 mm x 14.73 mm)	0.45 in x 0.58 in (11.43 mm x 14.73 mm)
	Bottom – Super Heavy Duty Polypropylene (UV-Stabilized)	0.5 in x 0.5 in (12.7 mm x 12.7 mm)	0.5 in x 0.5 in (12.7 mm x 12.7 mm)

TYPICAL INDEX VALUES

Index Property	Test Method	Value
Thickness	ASTM D 6525	0.304 in (7.72 mm)
Light Penetration	ASTM D 6567	21.5%
Resiliency	ASTM D 1777/ECTC	74%
Mass per Unit Area	ASTM D 6475	0.976 lb/yd^2 (0.529 kg/m^2)
MD-Tensile Strength Max.	ASTM D 6818	800 lb/ft (11.68 kN/m)
TD-Tensile Strength Max.	ASTM D 6818	800 lb/ft (11.68 kN/m)
MD-Elongation	ASTM D 6818	17%
TD-Elongation	ASTM D 6818	17%
Swell	ECTC Procedure	80%
Water Absorption	ASTM D 1117/ECTC	150%
UV Stability	ASTM D 4355 (1,000 hr)	90% minimum
Porosity	ECTC Procedure	94.89%
Stiffness	ASTM D6575	2.47 oz-in
Bench-Scale Rain Splash	ASTM D 7101	SLR = 22.10 @ 2 in/hr [b,c]
Bench-Scale Rain Splash	ASTM D 7101	SLR = 11.75 @ 4 in/hr [b,c]
Bench-Scale Rain Splash	ASTM D 7101	SLR = 11.12 @ 6 in/hr [b,c]
Bench-Scale Shear	ASTM D 7207	4.2 lb/ft^2 @ 0.5 in soil loss [c]
Germination Improvement	ASTM D 7322	372%

[a] Weight is based on a dry fiber weight basis at time of manufacture. Baseline moisture content of Great Lakes Aspen excelsior is 22%.

[b] SLR is the Soil Loss Ratio, as reported by NTPEP/AASHTO. [c] Bench-scale index values should not be used for design purposes.

MADE IN THE U.S.A

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