

# Netless Erosion Control Blanket Specification

The Netless Erosion Control Blanket (NECB) shall consist of an open, flexible and dimensionally stable network of degradable, thermally-bonded wood and crimped, interlocking man-made fibers. The porous matrix shall have a functional longevity of up to 12 months and provide highly effective erosion protection for steep slopes, low flow channels, wetlands and other environmentally sensitive areas. The highly absorbent NECB shall facilitate rapid germination and accelerate plant growth. The netless erosion control blanket shall be provided in a turf green color (fugitive biodegradable vegetable dye) or in a natural wood color to ensure enhanced visual aesthetics. Under no circumstances will erosion control blankets containing nets or stitching threads be accepted.

The **NECB** shall be **Futerra® F4 Netless™** as manufactured by Profile Products, LLC and shall conform to the property values listed below.

Property	Test Method	English	SI
<b>Physical</b>			
Mass Per Unit Area	ASTM D6475	5 oz/yd <sup>2</sup>	170 g/m <sup>2</sup>
Thickness	ASTM D6525	0.2 in	5.1 mm
Tensile Strength	ASTM D6818	4.3 lb/ft	0.8 kN/m
% Ground Cover	ASTM D6567	79%	79%
Flexural Rigidity	ASTM D6575	0.006 oz-in	435 mg-cm
Water Holding Capacity	ASTM D1117	395%	395%
Smolder Resistance	ECTC <sup>1</sup> Index Test	Yes	Yes
<b>Endurance</b>			
Functional Longevity	Observed	Up to 1 yr	Up to 1 yr
<b>Performance</b>			
Cover Factor <sup>2</sup> (6 in/hr event)	ECTC <sup>1</sup> Test Method #2	0.02	0.02
% Effectiveness <sup>3</sup>	ECTC <sup>1</sup> Test Method #2	98%	98%
Shear Stress	ECTC <sup>1</sup> Test Method #3	1 lb/ft <sup>2</sup>	48 Pa
Vegetation Establishment	ECTC <sup>1</sup> Test Method #4	476%	476%

<sup>1</sup>ECTC – Erosion Control Technology Council

<sup>2</sup>Cover Factor is calculated as soil loss ratio of treated surface versus an untreated control surface. One minus Cover Factor multiplied by 100% equals % Effectiveness.

<sup>3</sup>% Effectiveness

## Installation

Examine substrate and conditions where materials will be installed. Install NECB on geotechnically stable slopes that have been designed and constructed to divert runoff away from the slope face. Do not proceed with installation until satisfactory conditions are established.

Strictly comply with manufacturer's installation instructions and recommendations. Slope interruption devices or water diversion techniques are recommended when slope gradients exceed 4V:1H and slope lengths exceed 40'. The soil surface should be stable, firm and free of rocks and other obstructions greater than 2" in diameter. Install NECB in the primary direction of flow after application of seed, fertilizer and any other necessary soil amendments as follows:

### Slopes

Construct 6" by 6" anchor trench 1'-3' above the slope crest for entire length of slope to be treated. Unroll approximately 2' of NECB, place blanket upside down in anchor trench, anchor on 1' centers, backfill trench with compacted soil and roll blanket right side up over the compacted trench and down slope. Continue unrolling NECB down slope taking care to not allow roll to fall freely. Evenly apply anchors to leading roll edge every 2'-5' depending upon site conditions. Drive all anchoring devices flush with the soil surface. To insure maximum soil contact, do not stretch NECB over soil surface. When installing 6.5' wide rolls, it may be necessary to anchor center of roll every 5'-10' depending upon site conditions. Repeat anchor trench procedure above, butt-seam side by side rolls or overlap a maximum of 2' depending upon site conditions. Repeat same stapling frequency as leading edge, stapling every 2'-5', securing both rolls with a common anchor. Shingle lap successive rolls 2"-4" in downstream direction of the slope. Secure terminating roll ends by anchoring on 1' centers.

### Channels

Construct 6" by 6" anchor trench at the beginning of the channel across the entire width and follow above directions for trench details. Follow above directions for edge and roll end overlaps and anchoring techniques. Increase anchoring rate to a minimum of 1.5 anchors per square yard. Depending upon site conditions construct additional 6" by 6" anchor trenches or check slots at intervals along the channel reach and at the terminal end of the channel.

To maximize blanket to soil contact, irrigate treated areas immediately after installation. Evenly apply water at 2000 gallons/acre to simulate natural rainfall. Do not irrigate if rainfall is imminent.

**Consult comprehensive CSI formatted NECB specification for additional details.**

## Packaging



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