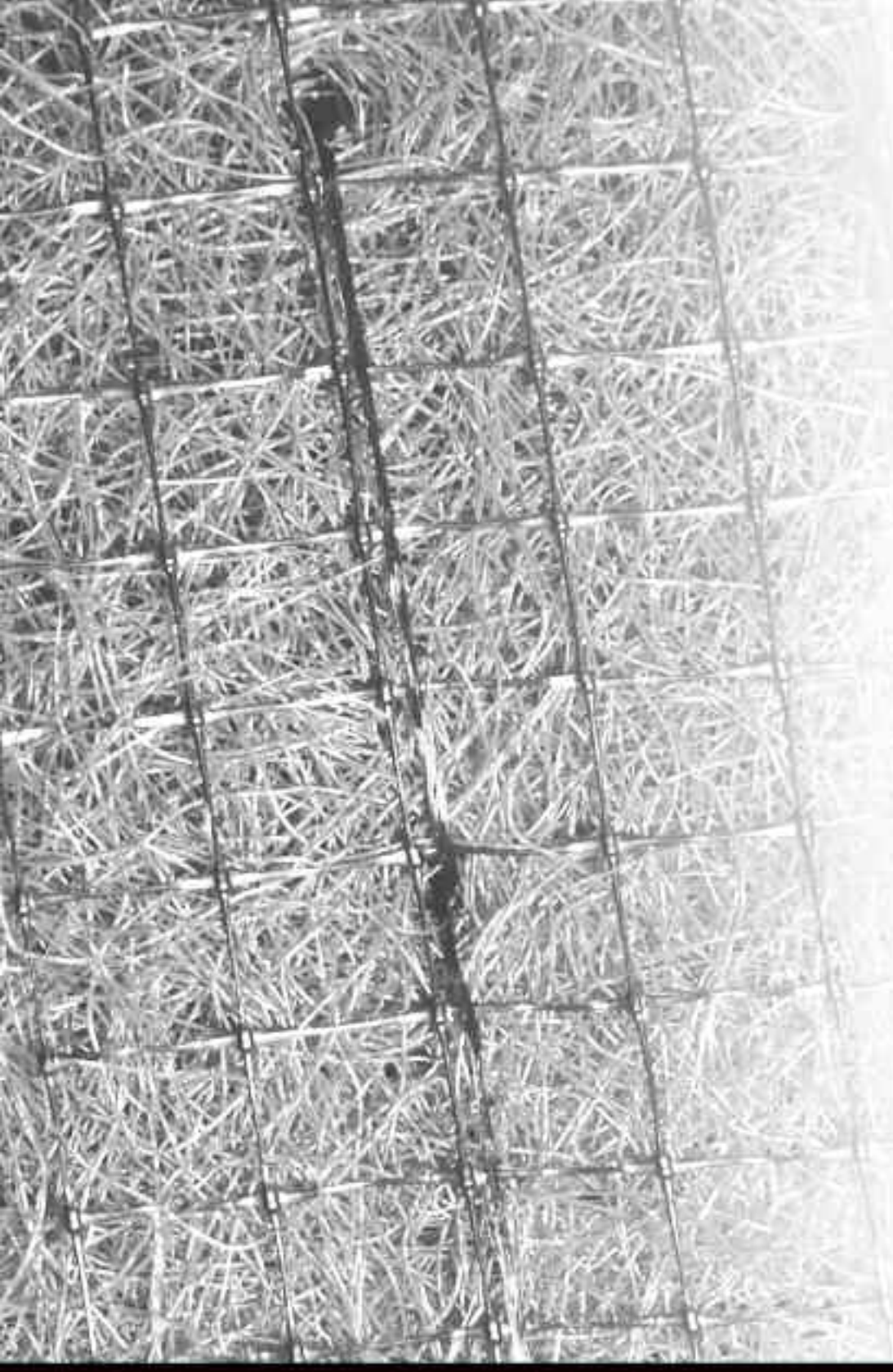
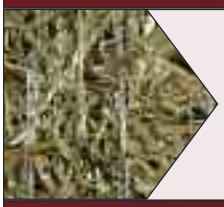


Carthage Mills

EROSION CONTROL PRODUCTS

SHORT TERM Solutions to Soil Erosion Problems

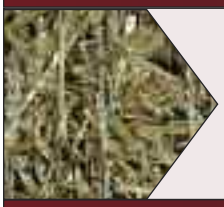
ECS-1 Straw Single Net Blanket



Ideal for erosion protection and the establishment of vegetation for up to 12 months, the EBX-S1 is an erosion blanket designed for low maintenance areas such as subtle grade, swales, roadside slopes, and on slopes ranging from 4:1 to 3:1.

Top Net: Lightweight photodegradable polypropylene
Matrix: 100% Agricultural Straw
Thread: Degradable
Permissible Shear Stress: 1.50 PSF (72 Pa)

ECS-2 Straw Double Net Blanket



Made with 2 nets, the EBX-S2 will provide protection up to 12 months, and is designed for moderate flow channels and on slopes up to 2:1. The double netting ensures more efficient erosion protection and plant growth than the single layer of netting.

Top Net: Lightweight photodegradable polypropylene
Bottom Net: Lightweight photodegradable polypropylene
Matrix: 100% Agricultural Straw
Thread: Degradable
Permissible Shear Stress: 2.05 PSF (98 Pa)

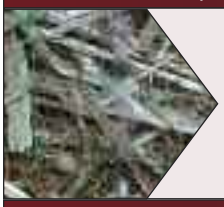
ECX-1 Excelsior Single Net Blanket

Designed for areas with moderate flow channels and slopes up to 2:1, the erosion blanket will provide protection for 12 months. Made with 100% Aspen wood fiber, the matrix will enhance water absorption, therefore aiding in quicker vegetation establishment.

Top Net: Lightweight photodegradable polypropylene
Matrix: 100% Aspen Wood fibers
Thread: Degradable
Permissible Shear Stress: 1.78 PSF (85 Pa)

EXTENDED TERM Solutions to Soil Erosion Problems

ECSC-2 Straw/Coconut Double Net Blanket



Engineered for erosion protection for up to 24 months, the EBX-SC2 is designed for use in moderate-heavy flow channels and on slopes up to a 1:1 grade. The combination of the two effective matrixes provides extra protection for extended vegetation growth.

Top Net: Medium weight UV-stabilized polypropylene
Matrix: 70% Agricultural Straw/30% Coconut Fiber
Thread: Degradable
Permissible Shear Stress: 2.15 psf (103 Pa)

ECX-2 Excelsior Double Net Blanket

Designed for areas with moderate flow channels and slopes up to 1.5:1 the erosion blanket will provide protection for 24 months. Made with 100% Aspen wood fiber, the matrix will enhance water absorption, therefore aiding in quicker vegetation establishment. The double netting provides more stability over the single net.

Top Net: Lightweight photodegradable polypropylene
Bottom Net: Lightweight photodegradable polypropylene
Matrix: 100% Aspen Wood Fibers
Thread: Degradable
Permissible Shear Stress: 2.13 PSF (102 Pa)

ECC-2 Coconut Double Net Blanket

Made with 100% coconut fiber, the EBX-C2 is an excellent choice for steep embankments, landfill side slopes and high-flow channels. The blanket is slow to degrade, providing the most extended temporary erosion control available.

Top Net: Medium weight UV-stabilized polypropylene
Bottom Net: Medium weight UV-stabilized polypropylene
Matrix: 100% Coconut Fiber
Thread: Black UV-Stabilized
Permissible Shear Stress: 2.3 psf (110 Pa)

BIODEGRADABLE Solutions to Soil Erosion Problems

ECS-1B Straw Biodegradable Single Net Blanket

Intended for quick vegetation growth while providing erosion control for up to 12 months, the EBX-S1 NN is ideal for subtle grades, swales, roadside slopes, and bioengineering.

Top Net: Leno Weave Organic Jute Netting
Matrix: 100% Agricultural Straw
Thread: Biodegradable
Permissible Shear Stress: 1.55 psf (74 Pa)

ECS-2B Straw Biodegradable Double Net Blanket

Made with 2 natural nets, the EBX-S2 NN will provide protection up to 12 months, and is designed for moderate flow channels and on slopes up to 2:1. The double netting ensures more efficient erosion protection and plant growth than the single layer of netting.

Top Net: Leno Weave Organic Jute Netting
Bottom Net: Leno Weave Organic Jute Netting
Matrix: 100% Agricultural Straw
Thread: Biodegradable
Permissible Shear Stress: 1.73 PSF (83 Pa)

BIODEGRADABLE Solutions to Soil Erosion Problems (Continued)

ECSC-2B Straw/Coconut Biodegradable Double Net Blanket

Made with a blend of straw and coconut, the EBX-SC2 NN offers protection up to 18 months and works effectively in moderate flow rainfall and runoffs, and on slopes up to 1:1 grade. The addition of coconut to the straw increases the absorption amount and provides extra protection for extended vegetation growth.

Top Net: Leno Weave Organic Jute Netting
Bottom Net: Leno Weave Organic Jute Netting
Matrix: 70% Agricultural Straw/30% Coconut Fiber
Thread: Biodegradable
Permissible Shear Stress: 2.0 PSF (96 Pa)

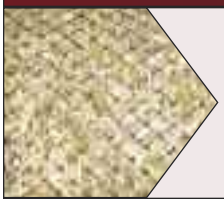
ECC-2B Coconut Biodegradable Double Net Blanket

Ideally suited for erosion protection and the establishment of vegetation up to 24 months, the EBX-C2 NN is an erosion blanket designed for steep embankments exceeding a 1:1 grade and moderate channel flow. The blanket is slow to degrade, providing the most extended temporary erosion contro available.

Top Net: Leno Weave Organic Jute Netting
Bottom Net: Leno Weave Organic Jute Netting
Matrix: 100% Coconut Fiber
Thread: Biodegradable
Permissible Shear Stress: 2.25 PSF (108 Pa)

STRAW WATTLE Sediment Retention Fiber Rolls

STRAW WATTLE

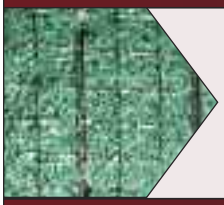


The straw wattle is excellent for use as check dams, perimeter control, and as a silt fence replacement. This lightweight product is designed to provide two methods of sediment removal. First by letting sediment to settle through ponding; then flow-through filtration allows for additional sediment removal. Easy installation with minimal trenching needed. Available in various and custom lengths.

Netting: UV Degradable Polypropylene
Matrix: 100% Agricultural Straw
Diameters: 9", 12", 20"

PERMANENT Solutions to Soil Erosion Problems

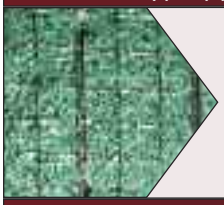
ECP-2 10oz Polypropylene Turf Reinforcement Mat



Designed to provide erosion protection necessary for the establishment of vegetation, and provide a permanent solution for turf reinforcement, it is highly suited for use in high-flow channels, lakes, ponds, or other high-flow areas. A permanent, two layer netting structure firmly helps secure establishing roots.

Top Net: Medium weight UV-stabilized polypropylene
Bottom Net: Medium weight UV-stabilized polypropylene
Matrix: 100% Green Polypropylene fiber – 10 oz
Thread: Black UV-Stabilized
Permissible Shear Stress: 2.15 PSF (100 Pa) Unvegetated
8.00 PSF (383 Pa) Vegetated

ECP-2 Polypropylene Turf Reinforcement Mat



Slightly heavier than the TRX-105, the TRX-130 is intended for use in areas susceptible to high water velocities. It will provide erosion protection necessary before, during and after vegetation is established. It is recommended in areas where natural vegetation is unable to control erosion alone.

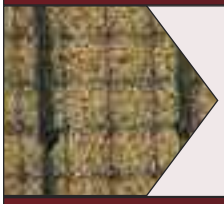
Top Net: Medium weight UV-stabilized polypropylene
Bottom Net: Medium weight UV-stabilized polypropylene
Matrix: 100% Green Polypropylene fiber – 13 oz
Thread: Black UV-Stabilized
Permissible Shear Stress: 2.25 PSF (108 Pa) Unvegetated
12.0 PSF (574 Pa) Vegetated

ECSC-3 Straw/Coconut Turf Reinforcement Mat

Designed to provide erosion protection necessary for the establishment of vegetation, and provide a permanent solution for turf reinforcement, it is highly suited for use in high-flow channels, lakes, ponds, or other high-flow areas. A permanent, three layer netting structure firmly helps secure establishing roots, while including the benefit of the straw/ coconut matrix blend.

Top Net: Medium weight UV-stabilized polypropylene
Middle Net: Heavy weight UV-stabilized polypropylene
Bottom Net: Medium weight UV-stabilized polypropylene
Matrix: 70% Agricultural Straw/30% Coconut Fiber
Thread: Black UV-Stabilized
Permissible Shear Stress: 2.79 PSF (134 Pa) Unvegetated
10.0 PSF (478 Pa) Vegetated

ECC-3 Coconut Turf Reinforcement Mat



Created with three UV-stabilized nets, the three dimensional TRM will provide protection through all phases of vegetation growth. The layer of coconut fiber is slow to degrade and helps with the germination. This is an excellent choice for high-flow areas and steep embankments where a permanent solution is needed

Top Net: Medium weight UV-stabilized polypropylene
Middle Net: Heavy weight UV-stabilized polypropylene
Bottom Net: Medium weight UV-stabilized polypropylene
Matrix: 100% Coconut Fiber
Thread: Black UV-Stabilized
Permissible Shear Stress: 3.70 PSF (177 Pa) Unvegetated
12.0 PSF (574 Pa) Vegetated

ECP-3 Triple Net Polypropylene Turf Reinforcement Mat

This ultra-heavy three-dimensional turf reinforcement mat can sustain heavy water flows while providing erosion protection through all phases of vegetation establishment. It is highly suited for use on steep slopes, high-flow channels, lakes, or pond banks.

Top Net: Heavy weight UV-stabilized polypropylene
Middle Net: Heavy weight UV-stabilized polypropylene
Bottom Net: Heavy weight UV-stabilized polypropylene
Matrix: 100% Green Polypropylene fiber
Thread: Black UV-Stabilized
Permissible Shear Stress: 5.00 PSF (239 Pa) Unvegetated
14.0 PSF (670 Pa) Vegetated

Installation Guidelines

1. **Slope** - Dig a 6" by 6" trench both up-slope and down-slope of thE area the matting is to be applied. Prepare the slope soil surface (raking, seeding and fertilizing).

   Channel - Dig a 6" by 6" trench both up-slope, down-slope, and along the top side of the channel. Prepare the slope soil surface (raking, seeding and fertilizing). Note, if used with stormwater discharge, place the up-slope trench at the face of the discharge structure footer.

2. Begin by placing the center blanket a minimum of 12" down-slope of the up-slope trench. Secure the blanket at the bottom of the trench with staples placed 12" apart. Backfill and compact the trench. Apply seed, and fold the blanket over soil, secure with a row of staples placed 12" apart across the width of the blanket. (Diagram A)

3. Roll the blanket vertically down the slope. Secure using the appropriate staple pattern below, specified by the slope. (Staple Patterns)

4. **Slope** - Parallel blankets must be overlapped by a minimum of 4", and secured with a row of staples placed approximately 3'-0" apart. (Diagram B)

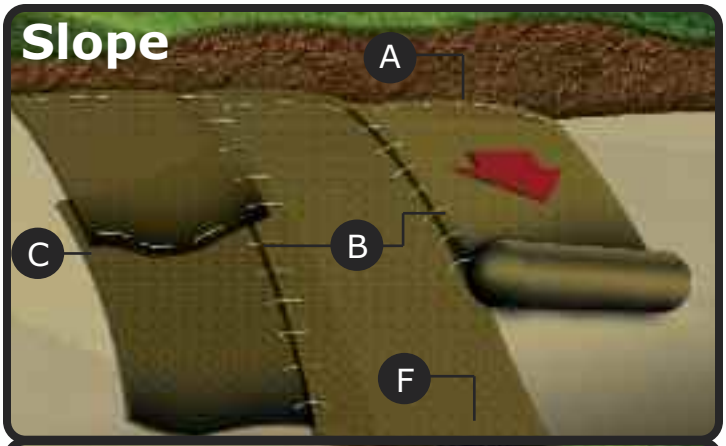
   Channel - Continue placing blankets up the slopes on both sides, with a minimum 4" overlapping (Diagram B), and securing each blanket in the beginning trench (Diagram A).

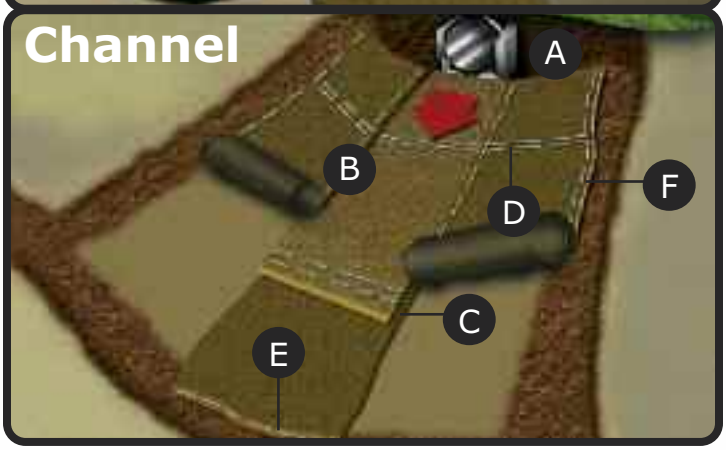
5. Additional blankets can be joined using a minimum 4" overlapping or shingle style (Diagram C) in the direction of water flow. Connect the blankets by placing staples approximately 5" for channel and 12" for slope, apart across the width of the blankets.

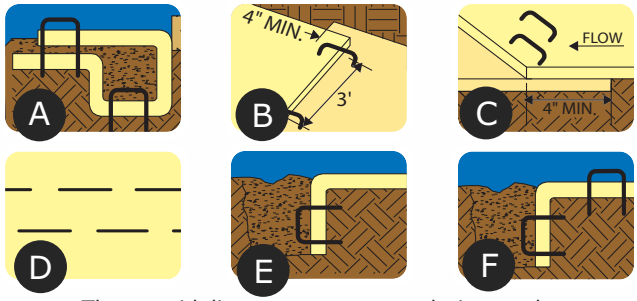
6. For maximum performance a check slot should be placed at 25'-40' intervals. Place a row of staples 4" apart along the entire width of the slope or channel. A second row should be placed 4" below in a staggered pattern.(Diagram D)

7. The end of blanket must be secured in a 6" x 6" trench with a row of staples placed at 12" intervals. (Diagram E)

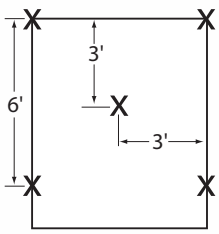
8. At the top edge of the side slope on the channel, fasten the blanket in a 6" x 6" trench with staples placed at 12" intervals. Install an additional row of staples 1'-0" down slope of the trench along the width of the fabric. (Diagram F)



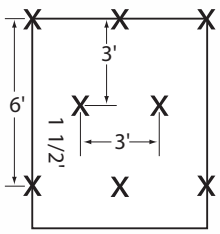




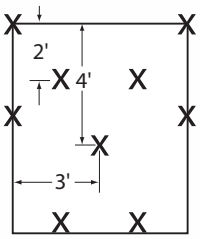
These guidelines are recommendations only. Any questions with the installation should be confirmed with your local distributor.



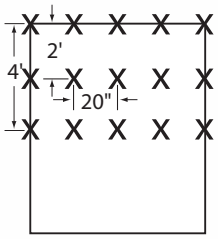
.7 staples/yd²
4:1 SLOPES



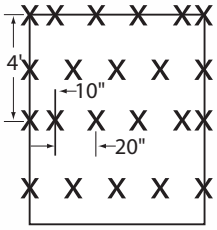
1.2 staples/yd²
3:1 SLOPES



1.75 staples/yd²
2:1 SLOPES



3.5 staples/yd²
MED. to HIGH
FLOW CHANNEL



3.8 staples/yd²
HIGH FLOW
CHANNEL

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