Channels, shorelines, fine turf areas and environmentally sensitive sites are some of the areas where innovations developed and introduced by Profile, which incorporate Green Design Engineering™, are utilized. Green design is ecologically responsible to help you maximize erosion control and vegetation establishment on slopes, channels, shorelines, fine turf areas and environmentally sensitive sites. The utilization of Green Design Engineering technologies ensures you are contributing to today’s most effective, cost-efficient and earth-friendly erosion control solutions for your environment.

**NEARLY PERFECT PERFORMANCE**

Futura blankets have been proven to deliver the fastest germination and highest effectiveness rating when compared to traditional straw and excelsior blankets. They have been evaluated under the standard growth establishment testing protocol developed and endorsed by the American Society for Testing and Materials (ASTM) the technical and marketing trade association for rolled materials. Comparative growth establishment data derived from standard test methods ASTM D1117 and D7322 reports and independent laboratory testing using standard test methods ASTM D1117 and D7322 demonstrates that Futerra F4 Netless® and Environet™ took erosion control effectiveness ratings to unprecedented levels. Percent effectiveness compares erosion amounts of a slope treated with an erosion control device versus the same unprotected slope when subjected to carefully controlled rainfall events. Slope gradient, length, soil type, rainfall intensity, rainfall duration, raindrop kinetic energy and event duration are the most commonly evaluated parameters when comparing erosion control devices. Percent effectiveness is determined by subtracting the soil loss ratio of the treated surface versus an untreated control surface (“C” Factor) from one and multiplying by 100 percent.

**PROOF FUTERRA® OUTPERFORMS THE COMPETITION**

Comparative data from the demanding testing protocol developed at the Utah Water Research Laboratory (UWRL) demonstrates that Futerra® F4 Netless® and Environet™ took erosion control effectiveness ratings to unprecedented levels. Percent effectiveness compares erosion amounts of a slope treated with an erosion control device versus the same unprotected slope when subjected to carefully controlled rainfall events. Slope gradient, length, soil type, rainfall intensity, rainfall duration, raindrop kinetic energy and event duration are the most commonly evaluated parameters when comparing erosion control devices. Percent effectiveness is determined by subtracting the soil loss ratio of the treated surface versus an untreated control surface (“C” Factor) from one and multiplying by 100 percent.

![Image](image-url)
WE KEEP THE EARTH FROM MOVING

Comparative data from the demanding testing protocol developed at the Utah Water Research Laboratory (UWRL) demonstrates that Futerra® F4 Netless® and Environet™ took erosion control effectiveness ratings to unprecedented levels. Percent effectiveness compares erosion amounts of a slope treated with an erosion control device versus the same unprotected slope when subjected to carefully controlled rainfall events. Slope gradient, length, soil type, rainfall intensity, and drop kinetic energy and event duration are the most commonly evaluated parameters when comparing erosion control devices. Percent effectiveness is determined by subtracting the soil loss ratio of the treated surface versus an untreated control surface (“C” Factor) from one and multiplying by 100 percent.

99.9%+ effectiveness of Futerra F4 Netless and Environet over other blankets and straw blankets

Futerra® is the ideal choice for establishing thick turf and native areas on golf courses. Futerra is a flexible, environmentally friendly solution, allowing you to use an assortment of specified plant variation across the course—without special equipment. Futerra is easy to install, providing immediate erosion control and rapid vegetation establishment, even on fine turf areas. And, it costs less than half the price of installed sod while creating a smoother, more aesthetically pleasing playing surface for golfers.

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For technical information, distributor locations and customer service call (800) 508-8681.

For Growth Establishment and Erosion Control

Engineered Technologies assures you are contributing to today’s most effective, cost-efficient and earth-friendly erosion control solutions for your environment.

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PROFILE –A MAJOR PARTNER IN EDUCATION

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Profile Products brings you the Futerra family of erosion control and revegetation blankets—to minimize soil erosion while rapidly establishing vegetation. Futerra blankets provide greater aesthetic appeal, are easier to install and provide an unrivaled 99.9% erosion control effectiveness and faster germination than traditional stitch-bonded straw, coconut and excelsior blankets that are plagued by dangerous and unsightly loose nettings and threads.

Through a proprietary and patented process, Futerra uses Thermally Refined® wood and degradable man-made fibers that are intertwined into a dimensionally stable composite matrix that conforms to the soil surface, preventing washouts and seed migration. This innovative technology allows Futerra to rapidly absorb water and hold it in place for enhanced germination and growth.

Futerra® F4 Netless®

Futerra F4 Netless employs a lightweight, yet fully coated matrix that provides high levels of slope protection and revegetative establishment for fine turf and environmentally sensitive applications.

With weed-free and environmentally friendly F4 Netless, there are no nets or threads to entangle plants and animals or cause maintenance equipment.

Futerra® Environet®

Building on the superior erosion control and toe establishment qualities of F4 Netless, Profile created Environet for slopes and environmentally sensitive sites where verticle conditions and/or higher levels of installation stress may be encountered.

Environet features a thermally fused matrix, reinforced with a quick degrading, rectangular netting that minimizes wildlife entanglement and improves site safety.

Unique Strand Configuration
Maximizes Degradation
Shovel-Ready—Traditional Net
Can Traps Wildlife
(Designed by Procter) Environmentally Sensitive Sites

CONFORMS TO SOIL
Prevents Washouts and Seed Migration

Futerra® Environet provides a reliable and safe alternative.

Both F4 Netless and new Environet are designed to minimize danger to wildlife or maintenance equipment. They require fewer man-hours and offer quick coverage for even the toughest landscape challenges.

ENHANCED SITE SAFETY
Both F4 Netless and new Environet are designed to minimize danger to wildlife or maintenance equipment. No nets mean no entanglement and in those areas where netting is needed, the rapidly degrading, open aperture of the Environet allows the rapid establishment of vegetation.

EASIER TO INSTALL
Futerra F4 Netless® and Environet® are lighter and easier to cut, shape and deploy than other blankets. They require fewer man-hours and offer quick coverage for even the toughest landscape challenges.

Lightweight Design
Conforms to toe with minimal entanglement or interference

EASY REPLACES SOD
Futerra is routinely installed on golf courses, parks, commercial projects and home building sites in lieu of sod for the following reasons:

• Saves valuable dollars—costs less than half the price of installed soil, including seed and fertiliser
• Saves installation time—it takes one man-hour to lay 2,500 square feet of Futerra versus one man-hour to lay 500 square feet of sod
• Improves site logistics—one truckload of Environet Environet covers eight acres, compared to a truckload of sod that only covers one-quarter of an acre
• Flexible—allows recently released seed varieties to be used versus sod monoculture

NATURE-FRIENDLY ANCHORS
Reinforcing ProFlex Green Design Engineering™ initiative, a complete line of Futerra stakes and staples are available. Biodegradable Futerra Stakes™ are a safer, more environmentally friendly alternative for securing Blankets. Futerra Staple Guns® and Futerra Staples® improve installation efficiencies while reducing labor time and costs.

www.futerra.com
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**FUTERRA® F4 NETLESS**
Futura F4 Netless employs a lightweight, yet fully robust material that provides high levels of slope protection and vegetative establishment for fine turf and environmentally sensitive applications. With weed-free and environmentally friendly, FutraNet, there are no nets or threads to entangle plants and animals or cause maintenance equipment.

**FUTERRA® ENVIRONET**
Building on the superior erosion control and turf establishment qualities of F4 Netless, Profile created Environet for slopes and environmentally sensitive sites where varied conditions and/or higher levels of installation stress may be encountered. Environet features a thermally fused matrix, reinforced with a quick degrading, rectangular netting that minimizes wildlife entanglement and improves site safety.

**ACCELERATED GERMINATION**
Futura 2000 is an excellent seed harvesting and application product.

**CONFORMS TO SOIL**
Futura 2000 fills in voids and seedling areas. 

**DESIGNED FOR THE ENVIRONMENT**
Fully proven and backed by extensive testing. Futerra allows a one-step application and is certified low-toxic.

**LIGHTWEIGHT DESIGN**
Flexible enough of Ebooknet Lightfoot, allowing slopes to be established for even the toughest landscape challenges.

**PHOTO CREDIT**
Photo courtesy of Lucinda Dustin
Profile Products brings you the Futerra® Family of erosion control and revegetation blankets—to rapidly absorb water and hold it in place for enhanced germination and growth. Futerra® blankets provide greater aesthetic appeal, are easier to install and provide an unrivaled 99.9% erosion control effectiveness and faster germination than traditional stitch-bonded straw, coconut and excelsior blankets that are plagued by dangerous and unsightly loose nettings and threads.

Through a proprietary and patented process, Futerra uses Thermally Refined® wood and degradable man-made fibers that are intertwined into a dimensionally stable composite matrix that conforms to the soil surface, preventing washouts and seed migration. This innovative technology allows Futerra to rapidly absorb water and hold it in place for enhanced germination and growth.

**FUTERRA® F4 NETLESS®**

Futerra® F4 Netless® employs a lightweight, jointlessly woven matrix that provides high level of slope protection and vegetative establishment for fine turf and environmentally sensitive applications. With weed-free and environmentally friendly Futerra®, there are no nets or threads to entangle plants and animals or snare maintenance equipment.

**FUTERRA® ENVIRONET®**

Building on the superior erosion control and turf establishment qualities of F4 Netless, Profile created Environet® for slopes and environmentally sensitive sites where windy conditions and/or higher levels of installation stress may be encountered. Environet features a thermally fused matrix, reinforced with a quick degrading, open aperture of the Environet® netting provides a reliable and safe alternative.

- **Lightweight Design:** Futerra F4 Netless® and Environet™ are lighter and easier to cut, shape and deploy than other blankets. They require fewer man-hours and offer quick coverage for even the toughest landscape challenges.
- **Enhanced Site Safety:** Both F4 Netless and new Environet are designed to minimize danger to wildlife or maintenance equipment. No nets means no entanglement and in those areas where netting is needed, the rapidly degrading, open aperture of the Environet® netting provides a reliable and safe alternative.
- **Easy to Install:** Futerra F4 Netless® and Environet™ are easier to install and offer quick coverage for even the toughest landscape challenges.
- **Nature-Friendly Anchors:** Reinforcing Profile’s Green Design Engineering™ initiative, a complete line of Futerra stakes and staples are available. Biodegradable Futerra Stakes® are a safe, more environmentally friendly alternative for securing blankets. Futerra Staple Guns® and Futerra Staples® improve installation efficiencies while reducing labor time and costs.

**BLANKETS DESIGNED TO OUTPERFORM— EVEN ON ENVIRONMENTALLY SENSITIVE SITES**

**THE FUTERRA® FAMILY: PROVEN 99.9% EFFECTIVE**

Profile Products' Futerra blankets are renowned for keeping soil in place with 99.9% effectiveness. When compared to traditional blankets and nets, Futerra clearly provides better slope protection with faster, thicker vegetative establishment.

**FUTERRA® F4 NETLESS®**

- **Flexible:** allows recently released seed to establish where and when needed.
- **Lightweight:** 20% lighter compared to other blankets.
- **Easy to Cut:** saves installation time—it takes one man-hour to lay 3,000 square feet of Futerra versus one man-hour to lay 500 square feet of sod.
- **Environmentally Friendly:** eliminates clean up after the job.
- **Quick Coverage:** covers the area of an acre with Futerra F4 Netless® in less than one man-hour.

**FUTERRA® ENVIRONET®**

- **Flexible Design:** allows Preflush, Liquid Luffa, Catalyst, and any other liquid to be used versus sod monoculture.
- **Environmentally Friendly:** made from 99.9% naturally occurring materials and can be used in lieu of sod for the following reasons:
  - **Saves Valuable Dollars:** costs less than half the price of installed sod, including seed and fertilizer.
  - **Environmentally Friendly:** saves installation time—it takes one man-hour to lay 3,000 square feet of Futerra versus one man-hour to lay 500 square feet of sod.
  - **Environmentally Friendly Anchor System:** improves site logistics—one truckload of Futerra Environet covers eight acres, compared to a truckload of sod that only covers one-quarter of an acre.
  - **Flexible:** allows recently released seed varieties to be used versus sod monoculture.

**PRODUCT SPECIFICATIONS**

- **Dimensions:**
  - **Futerra® F4 Netless®**: 2 m x 27.4 m / 6.50’ x 90’
  - **Futerra® Environet™**: 2 m x 41 m / 6.83’ x 135’

- **Weight:**
  - **Futerra® F4 Netless®**: 20.5 lb / 9.32 kg
  - **Futerra® Environet™**: 7.7 kg

- **Quantity:**
  - **Futerra® F4 Netless®**: 16 24,960 yd² / 20,866 m²
  - **Futerra® Environet™**: 16 39,360 yd² / 32.5 yd²

- **Rolls/Pallet:**
  - **Futerra® F4 Netless®**: 33,062 m² / 41 m²
  - **Futerra® Environet™**: 20,866 m² / 27.4 m²

- **Average:**
  - **Futerra® F4 Netless®**: 16.3 kg / 32 lb
  - **Futerra® Environet™**: 36 lb / 7.7 kg

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Profile® offers environmentally sound, site-specific solutions for your environment. These solutions include soil modification, erosion control and vegetation establishment on slopes, channels, shorelines, fine turf areas and environmentally sensitive sites. The utilization of Green Design Engineering technologies assures you are contributing to today’s most effective, cost-efficient and earth-friendly erosion control solutions for your environment.

Profile’s F4 Netless® and EnviroNet™ blankets have been proven to deliver the fastest germination and highest effectiveness rating when compared to traditional straw and excelsior blankets. They have been evaluated under the standard growth establishment testing protocol developed and endorsed by the American Society for Testing and Materials (ASTM) the technical and marketing trade association for rolled materials (ASTM) the technical and marketing trade association for rolled materials (ASTM) the technical and marketing trade association for rolled materials (ASTM) the technical and marketing trade association for rolled materials (ASTM) the technical and marketing trade association for rolled materials (ASTM)

### Comparative Data from the Demanding Testing Protocol Developed at the Utah Water Research Laboratory (UWRL)

<table>
<thead>
<tr>
<th>Blanket Type</th>
<th>Effectiveness Rating</th>
<th>Percent Reduction in Soil Loss</th>
<th>Soil Loss/Acre</th>
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<tbody>
<tr>
<td>Bare Soil Control</td>
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<td>1.000</td>
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<tr>
<td>Single-Net Straw Blanket</td>
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<td>Single-Net Excelsior Blanket</td>
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<tr>
<td>Futerra® F4 Netless®</td>
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<td>99.9%</td>
<td>0.001</td>
</tr>
<tr>
<td>Futerra® EnviroNet™</td>
<td>0.001</td>
<td>99.9%</td>
<td>0.001</td>
</tr>
</tbody>
</table>

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**Profile**
- F4 Netless®
- EnviroNet™
- Futerra®
- Single-Net Straw Blanket
- Single-Net Excelsior Blanket
- Bare Soil Control
- Soil Loss/Acre calculation based upon extrapolation of soil loss to a one acre site disturbance

**Legend**
- Plot 1
- Plot 2
- Bare Soil Control
- Single-Net Straw Blanket
- Single-Net Excelsior Blanket
- Futerra® F4 Netless®
- Futerra® EnviroNet™
- Beige = Bare Soil Control
- Brown = Single-Net Straw Blanket
- Black = Single-Net Excelsior Blanket
- Green = Futerra® F4 Netless®
- Red = Futerra® EnviroNet™
- Single-Net Straw Blanket
- Single-Net Excelsior Blanket
- Futerra® F4 Netless®
- Futerra® EnviroNet™

**Additional Information**
- Water Absorption
- Growth Establishment
- Erosion Control

**For more information, visit www.futerra.com**