

THE LINES, ONE BY ONE

Product Catalogue

The 22 product lines of the 6 brands in the Ece catalogue, one page per line, with their key data and a direct link to their page on **epcepy.com**. Each line also exists as an individual PDF, so you can send the client only what they need.

Ece[®] — Erosion Control Company

Tte. Héctor Vera 2136 esq. Raúl Carmona, C.P. 1820, Asunción, Paraguay
epcepy.com • info@epcepy.com • +595 981 003532



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HOW TO USE THIS CATALOGUE

Each line is a self-contained page that also exists as an individual PDF. The QR at the foot of each page leads to its product page on epcepy.com; the full technical data sheet can be downloaded at epcepy.com/catalogos.html.

HYDROSEEDING AND HYDRAULIC MULCHES



Applied with a hydroseeder — mulch, seed and fertiliser in a single pass

>99%

FLEXTERRA · COCOFLEX
EFFECTIVENESS

0 h

OF CURING (FLEXTERRA)

600%

MORE GERMINATION VS.
THE ORIGINAL FGM

Technical specifications

MOPC-APPROVED
SPECIFICATIONS

Every slope has its matting. The Profile line forms a performance ladder: **Wood with Tack** for gentle slopes, **ProMatrix™ EFM** which replaces mattings, BFM and SMM, **Flexterra® HP-FGM®** — effective immediately, with grass growing twice as fast — and **CocoFlex™ ET-FGM™**, coir and wood for slopes up to 0.25H:1V and 2 years of protection.

Everything is applied with hydraulic equipment, with no machinery entering the slope, and Ece combines it with seed, fertiliser and additives in a single pass — **a fleet of hydroseeders and our own crews**, the only turnkey service in the country.

THE PROFILE LADDER

Wood w/ Tack	Fibre + tackifier · gentle slopes
ProMatrix™	EFM · replaces ECB, BFM and SMM
Flexterra®	HP-FGM · >99% immediate effectiveness
CocoFlex™	ET-FGM · up to 0.25H:1V, 2 years
Applications	Road and railway slopes · mine closures · landfills · housing developments

How to choose: the selection is sized with the manufacturer's PS3 software from the gradient, the soil and the design rainfall. Ece surveys the site and delivers the specification with the rate per hectare, at no charge.

Ece projects: Bioceanic Highway (+1,000,000 m²), Metropolitan Corridor, Itá–Pirayú link, Héroes del Chaco approaches.



THIS PRODUCT ON THE WEB

epcepy.com/productos/hidrosiembra.html · Technical data sheet PDF: epcepy.com/catalogos.html



ProGanics BSM applied — building soil where there is none

<5%

ORGANIC MATTER: THE
TARGET SOIL

100%

RECYCLED,
PHYTOSANITISED FIBRES

0

PLASTIC —
BIODEGRADABLE, NON-
TOXIC

2 in 1

DUAL: SOIL + EROSION
CONTROL

The alternative to the topsoil layer. ProGanics® BSM™ speeds up the development of impoverished soils by combining recycled fibres with biochar, seaweed extract, humic acid, endomycorrhizae and beneficial bacteria. **It replaces topsoil, compost and peat** where getting hold of them is expensive or impossible.

ProGanics® DUAL™ adds a BFM-class erosion control in the same application: a continuous, porous and flexible blanket bonded to the soil (curing 12–24 h), ideal for large projects with short programmes and slopes up to 2H:1V.

How it is used: BSM goes under the hydraulic mulches, or in roll form as a growth medium; DUAL solves soil and erosion in a single pass — it costs less than installing BSM + BFM separately.

THE RANGE

BSM™	Builds soil · goes under HECP or RECP
DUAL™	Soil + BFM erosion control in one pass
Components	Biochar · seaweed · humic acid · mycorrhizae
Fibres	100% recycled wood and bark
Applications	Mine and quarry closures · stripped soils · environmental restoration · projects with no topsoil



THIS PRODUCT ON THE WEB

epcepy.com/productos/hidrosiembra.html · Technical data sheet PDF: epcepy.com/catalogos.html



Futerra F4 Netless® — shoots through the matting, with no netting to trap wildlife

99.9%

EROSION CONTROL
EFFECTIVENESS

6

PRODUCTS: FROM F4
NETLESS TO R45 HP

0

NETTING OR LOOSE
THREADS (F4)

1700%

WATER RETENTION OF
THE MATRIX

The matting that germinates faster. The Futerra® family uses Thermally Refined® wood fibres interwoven in a dimensionally stable matrix that moulds to the soil, absorbs water and holds it where the seed needs it — **without the loose netting and stitching** than traditional straw or coir mattings.

The range covers everything from fine turf and environmentally sensitive sites (**F4 Netless®, EnviroNet™**) through to permanent turf reinforcement with the **TRM 7003 / 7010 / 7020** and the **R45 HP-TRM** with Anchor Armor™ anchorage for demanding channels and slopes.

THE RANGE

F4 Netless®	Fine turf and sensitive sites
EnviroNet™	Slopes with wind
TRM 7003/7010/7020	Permanent turf reinforcement
R45 HP-TRM	High duty · Anchor Armor™
Applications	Slopes · vegetated channels · riverbanks · parks · environmentally sensitive sites

Fact: TRM 7020 is also the basis of the Raíz Ece System (P.04) — the reinforced turf that competes with concrete.

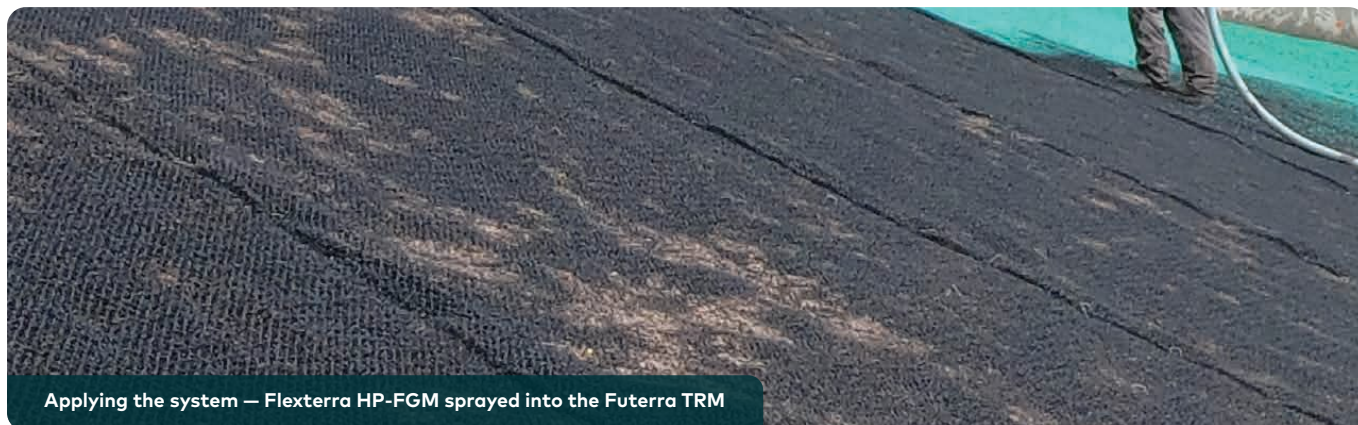


The Futerra matrix — interwoven fibres, no netting



THIS PRODUCT ON THE WEB

epcepy.com/productos/mantos-control-erosion.html · Technical data sheet PDF:
epcepy.com/catalogos.html



Applying the system — Flexterra HP-FGM sprayed into the Futerra TRM

99%

EROSION CONTROL
EFFECTIVENESS

95%

OPEN SPACE FOR
VEGETATION

2×

FASTER ESTABLISHMENT

1/3–1/2

OF THE COST OF A RIGID
STRUCTURE

Engineering + agronomy in a single system. The Raíz Ece System combines the TRM **Futerra® 7020** — UV stabilised nylon filaments, thermally fused, that neither unravel nor flatten — with the hydraulic infill of **Flexterra® HP-FGM®** sprayed into its matrix: immediate protection and ideal growing conditions in the same operation.

The result is a **permanent reinforced turf** which protects high-flow waterways, dykes, embankments and steep gradients with the effectiveness of a rigid structure — at a third or half of its cost, and green.

Where it competes with concrete: channels and spillways, riverbanks and drainage outfalls where only a rigid lining or rip-rap used to be specified. Ece sizes the system with the project's hydraulics at no charge.

THE SYSTEM

Components	Futerra TRM 7020 + Flexterra HP-FGM
Filaments	UV nylon, thermally fused
Protection	Immediate + root reinforcement
Hydraulics	3.6 m/s · 290 N/m ² vegetated
Applications	High-flow channels · dykes · steep gradients · drainage outfalls · riverbanks



THIS PRODUCT ON THE WEB

epcepy.com/productos/mantos-control-erosion.html · Technical data sheet PDF:
epcepy.com/catalogos.html

P.05 PRODUCTS · REVEGETATION AND EROSION

DUSTRX™ HYDRO DUST SUPPRESSANTS

PROFILE · USA



112

KG/HA — APPLICATION RATE

PM2.5/10

REGULATORY COMPLIANCE

100%

BIODEGRADABLE · USDA BIOBASED

0

SALTS, SOLVENTS AND CHLORIDES

Dust costs money and health. On construction sites, unpaved roads, mines and energy parks, fugitive dust increases maintenance, reduces productivity and generates complaints from the community. Watering with a tanker truck evaporates within hours.

DustRX™ Hydro is Profile's agronomic answer: a 100% biodegradable suppressant applied with a water truck or hydroseeder, **binds the fines at the surface** and it lasts far longer than watering — less water, less fuel, fewer passes. Unlike salts and synthetic polymers, **it does not degrade the soil or corrode plant.**

Visible application: the temporary green dye shows where it has already been applied — even coverage with no waste — and disappears on drying.

TECHNICAL DATA

Rate	112 kg/ha depending on the soil
Mix	22.7 kg / 3,790 L of water
Supply form	22.7 kg bag · 40 per pallet
Standard	USDA Biobased 100% · PM2.5/PM10
Applications	Construction sites and diversions · ranch roads · mining · solar and wind farms · equestrian arenas



THIS SOLUTION ON THE WEB

epcepy.com/aplicaciones.html#polvo · Technical data sheet PDF: epcepy.com/catalogos.html

HYDROTEX® CONCRETE MATTRESSES



150 mm Articulated Block — Pilar Coastal Defence, 172,000 m² (an Ece project)

6

CONFIGURATIONS:
AB-US-FP-FB-ENVIROMAT-FX

75–610

MM THICK DEPENDING
ON THE LINE

Underwater

CAST IN SITU, EVEN
SUBMERGEDMade to
measurePANELS PER PROJECT,
WITH CABLES**Textile forms filled with concrete in situ — even underwater.**

Two layers of high tenacity geotextile set the thickness, adapt to the topography and are pumped with fine aggregate concrete (mortar): better strength than a traditional rigid lining, with faster, safer and cheaper installation.

The family covers the whole spectrum: **Articulated Block (AB)** — articulated and permeable, the choice at Pilar and Pozo Hondo —, **Uniform Section (US)** impermeable, of maximum hydraulic efficiency, **Filter Point (FP)** draining, paver-type, **Filter Band (FB)** of maximum permeability and **Enviromat / FX** revegetable ones that disappear under the green.

Ece projects: Pilar (AB600 · 172,000 m²) · Waterfront channels (US300 · 3,000 m²) · Pozo Hondo (AB600 · 20,000 m²) · Aquaterra (FX300 · 5,600 m²) · AquaDelta (AB400 · 1,300 m²) · Gasory Bridge (AB400 · 860 m²) · **Al Heya, Abu Dhabi (FP400 · 75,000 m²).**

THE FAMILY

AB	75–610 mm · articulated, cables in 1–2 directions
US	50–400 mm · impermeable, low Manning
FP	55–300 mm · draining, paved surface
FB	100 mm · maximum permeability
Enviromat/FX	25–100 mm · up to 30% revegetable
Applications	Defences, channels, slopes, abutments, stormwater outfalls, pipeline protection

**THIS PRODUCT ON THE WEB**

epcepy.com/productos/colchones-concreto.html · Data sheets for the 6 configurations:
epcepy.com/catalogos.html



Pile jackets installed on bridge piles · Synthetex®

Made to measure

FOR EVERY PILE DIAMETER

3

SUBSTRATES: STEEL, CONCRETE, TIMBER

Underwater

WITHOUT DIVERTING TRAFFIC

+50

YEARS OF EXTENDED SERVICE LIFE

Rehabilitate without replacing. Pile jackets are cylindrical textile forms that wrap the deteriorated pile and are pumped with concrete or structural mortar: the textile forms a continuous sleeve that **restores the section and isolates the pile from water and oxygen** — stopping steel corrosion, concrete washout or biological attack on timber.

Installation is **underwater and without interrupting service** of the bridge or wharf: divers position the jacket, it is closed with integrated zips and pumped from the surface.

Where it pays off most: bridges with scoured piers, wharves with corroded piles and port structures that cannot be taken out of service.

SPECIFICATIONS

Format	Cylindrical, made to measure
Substrates	Steel · concrete · timber
Fill	Pumped concrete or mortar
Closure	Integrated zips
Installation	Underwater, in service
Applications	Bridge piers · wharves · river structures · submerged foundations



THIS PRODUCT ON THE WEB

epcepy.com/productos/colchones-concreto.html · Technical data sheet PDF: epcepy.com/catalogos.html



Gabion wall under construction — San Lorenzo WWTP, Paraguay (a CE project)

3

FORMATS: BOX ·
MATTRESS · SACK

8×10

DOUBLE-TWISTED
HEXAGONAL MESH

Flexible

FOLLOWS SETTLEMENT
WITHOUT CRACKING

100%

PERMEABLE — NO UPLIFT
PRESSURE

Classic retention, properly done. Structures of stone confined in hexagonal galvanised wire mesh (with the option of a polymer coating): the **box gabions** form gravity walls, the **Hexone M mattresses** line banks, channels and slope toes, and the **sack gabions** solve submerged foundations.

Its structure is flexible and monolithic: it follows ground movement without losing integrity, it drains naturally and over time traps sediment and vegetation, blending into the landscape. It is combined with a filter geotextile behind the wall and with geogrids when the wall calls for it.

Reference CE project: gabion wall protecting the San Lorenzo WWTP — retention and channel defence in a single system, with our own crew.

TYPICAL SPECIFICATIONS

Hexone C · box	1.0×1.0×1.5–4.0 m · h 0.5–1.0 m
Hexone M · mattress	Thicknesses 0.17 / 0.23 / 0.30 m
Hexone S · sack	Ø 0.65 m · length 1–4 m
Wire	Heavy Zn/Al galvanising · PVC option
Applications	Gravity walls · banks · channels · energy dissipators · submerged foundations



THIS PRODUCT ON THE WEB

epcepy.com/productos/gaviones.html · Technical data sheet PDF: epcepy.com/catalogos.html



Railway embankment stabilisation with EcoLock sheet piles — Poland

5x

LIGHTER THAN STEEL

1.9–37.8KNM/M OF ALLOWABLE
MOMENT**44 MPa**TENSILE STRENGTH OF
STRUCTURAL PVC**0**CORROSION — IMMUNE
TO WATER AND SOILS

Everything steel does, where steel rusts. EcoLock sheet piles are monolithic extruded profiles of modified structural PVC that interlock with each other forming **continuous retaining or cut-off curtains**: they do not corrode, need no maintenance and resist sea water, aggressive soils and biological attack.

They are driven with conventional plant (vibratory hammer, excavator, mandrel, trenching or jetting) and their weight, five times lower, **cuts freight and makes it possible to work where a heavy crane cannot reach**. Profile range GW-270 to GW-610 and hybrid SuperLock combination for higher moments.

Quick selection: GW-300 (7.0 kNm/m) light curtains · GW-610 (13.5–24.4) medium retention · GW-458 (33.9–37.8) demanding defences. Calculation with the manufacturer's Designer 3.0 software.

ECOLock MATERIAL

Density	1.44 g/cm ³ (steel: 7.86)
Tensile strength	44 MPa · modulus ≥2,300 MPa
Impact	Charpy ≥30 kJ/m ²
Profiles	GW-270 → GW-610
Quality	ISO 9001:2015
Applications	Bank defences · waterfronts · cut-off curtains · dykes · sensitive areas

**THIS PRODUCT ON THE WEB**

epcepy.com/productos/tablestacas.html · Technical data sheet PDF: epcepy.com/catalogos.html



StrataWeb® protecting the slopes of the Alberdi approach — 57,000 m² (an Ece project)

75–300

MM CELL HEIGHT

5

CELL SIZES (SW330–712)

>5,000 h

ESCR RESISTANCE (HD SERIES)

35 m²

PER EXPANDED SECTION

The honeycomb that turns loose fill into structure.

StrataWeb® is a three-dimensional cellular confinement system of textured, perforated polyethylene strips welded together. Expanded and filled with local material, the cell **confines the soil and spreads the loads** — roads over soft soils, slopes, channels and green-faced walls.

Two series, by duty: **HD** (1.65 mm sheet, ESCR >5,000 h — the heavy specification for load and exposure) and **LT** (1.25 mm sheet — the light option for standard confinement). Drainage perforations and rhomboid texturing across the whole range.

SPECIFICATIONS

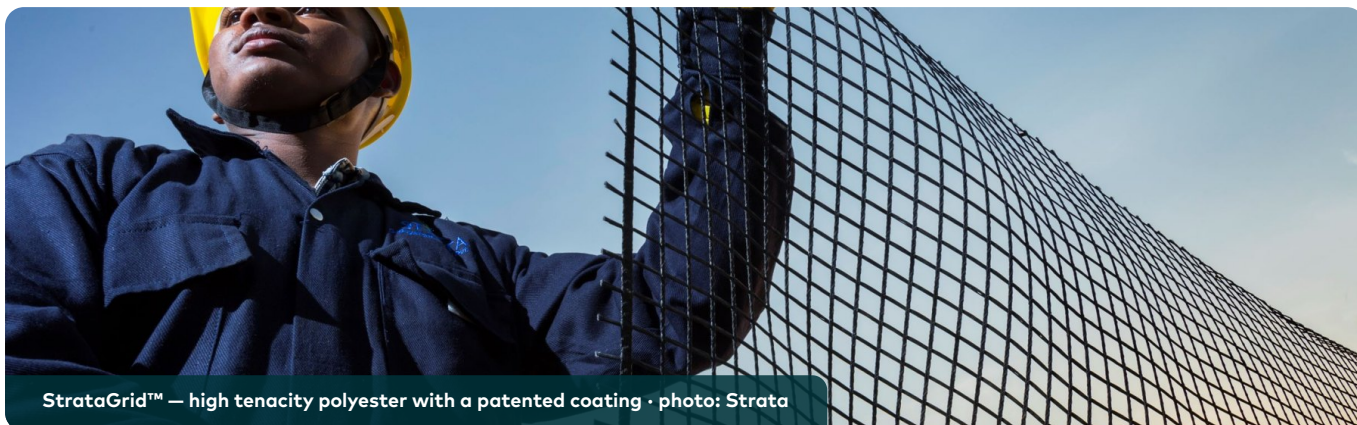
Cells	SW 330 · 356 · 445 · 660 · 712
Heights	75–300 mm
HD	1.65 mm · peel 1,065–4,260 N
LT	1.25 mm · peel 750–3,000 N
Test methods	GAI-LAP · CE · TÜV
Applications	Unpaved roads · slopes · channels · green walls · platforms

Ece projects: approaches to the city of Alberdi (57,000 m²) · Paraguayan Navy, Remanso Bridge (23,000 m²) · forestry roads in Concepción with 100 mm StrataWeb · all-weather rural roads with local fill.



THIS PRODUCT ON THE WEB

epcepy.com/productos/geoceldas.html · Technical data sheet PDF: epcepy.com/catalogos.html



StrataGrid™ — high tenacity polyester with a patented coating · photo: Strata

40–180

KN/M UNIAXIAL (SGU)

20–150

KN/M BIAxIAL (SGB)

10%ELONGATION AT
NOMINAL STRENGTH**+100**

YEARS OF DESIGN LIFE

The backbone of reinforced soil. StrataGrid™ are geogrids of **reinforced polyester (PET)**, woven from high molecular weight, high tenacity yarn with a patented polymer coating. The **SGU (uniaxial)** reinforces in the main direction of stress — MSE walls, reinforced slopes —; the **SGB (biaxial)** spreads the load in both directions for pavement bases, embankments and platforms.

Creep reduction factor of 1.39 (114-year design life), tests in accredited laboratories **GAI-LAP** and certification **CE**. Standards: ASTM D6637 (SGU) · EN ISO 10319 (SGB).

Synergy: StrataGrid is the reinforcement of the StrataSlope™ and Lock+Load™ walls (P.19) — a single supplier for the whole system.

THE SERIES

SGU uniaxial	Grades 40–180 · rolls 1.9–5.7 × 100 m
SGB biaxial	Grades 20–150 (MD = CMD) · 5.0 m
Creep	Factor 1.39 · 28.8–129.5 kN/m limited
StrataBase®	Rigid biaxial PP · SB11 · SB12 · SB30 · 12–30 kN/m
Certification	CE · GAI-LAP · GRI GG7/GG8
Applications	MSE walls · reinforced slopes · embankments · pavements · piled platforms

**THIS PRODUCT ON THE WEB**

epcepy.com/productos/geogrillas.html · Technical data sheet PDF: epcepy.com/catalogos.html



Asphalt course being laid over the fibreglass geogrid

4

TYPES: CG 50L · 100L ·
120L · 200L

55–215

KN/M BY TYPE (EN ISO
10319)

2.5%

ULTIMATE ELONGATION

73 GPa

YOUNG'S MODULUS OF
THE GLASS

Stiffness exactly where the asphalt needs it. The Vitrone® fibreglass geogrids of the CE own line have an elastomeric polymer coating and are made in four types for reinforcing asphalt courses to **EN 15381**: its very high modulus and elongation of just 2.5% **take up the stresses before the pavement cracks.**

They delay reflective cracking in overlays over existing or milled pavements, withstand hot-mix asphalt temperatures and allow **composite version with geotextile** which adds a moisture barrier and optimum retention of the tack coat.

The four types: CG 50L (55×55 kN/m) · CG 100L (115×115) · CG 120L (135×135) · CG 200L (115×215). Ece picks the type from the traffic and the condition of the pavement at no charge.

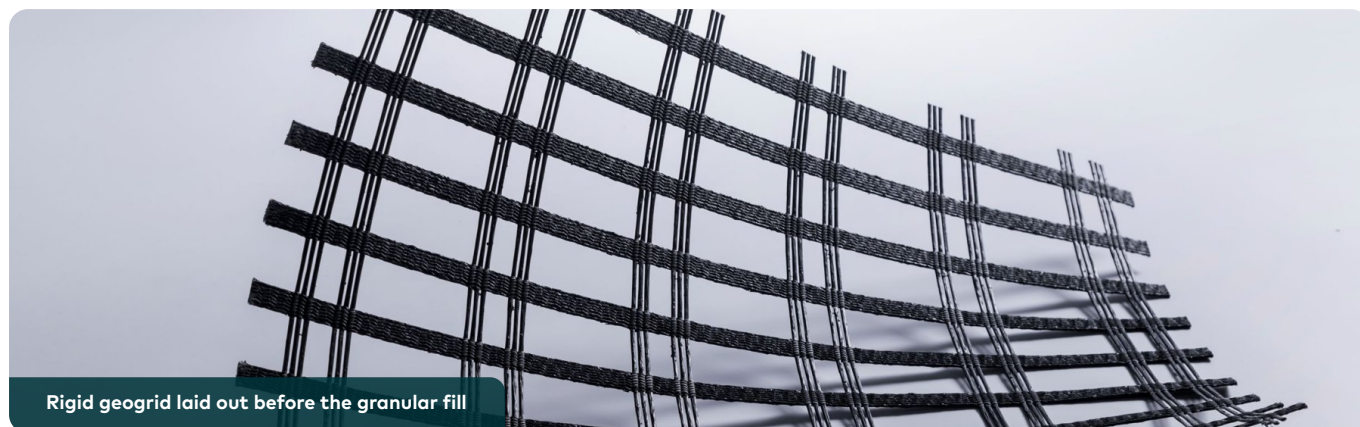
COMMON SPECIFICATIONS

Material	Fibreglass + elastomer
Grid	25×25 mm or 38×38 mm
Coating	Stable >232 °C (ASTM D276)
Rolls	1.0–3.0 m × 70–150 m
Standard	EN 15381 · EN ISO 10319
Applications	Overlays · roads and airports · widening · milled surfaces



THIS PRODUCT ON THE WEB

epcepy.com/productos/geogrillas-fibra-vidrio.html · Technical data sheet PDF:
epcepy.com/catalogos.html



Rigid geogrid laid out before the granular fill

3

GRADES: SB11 · SB12 · SB30

12–30

KN/M ULTIMATE STRENGTH

93%

JUNCTION EFFICIENCY (GRI-GG2)

–50%

OF AGGREGATE THICKNESS

Less stone, more road. StrataBase® is a geogrid **rigid biaxial extruded polypropylene**: integral ribs and junctions that confine the granular material and introduce tensile elements. The aggregate penetrates the apertures and is **mechanically interlocked**, creating a platform that spreads the loads and stops lateral deformation of the layer.

Lateral spreading of the base aggregate is the most common failure of pavement structures: StrataBase reduces it, and with that **saves up to half the aggregate thickness** or it multiplies the service life of the package. It is the economical alternative to excavating and replacing the soft soil.

When to use it: subgrades with CBR < 3, loading yards, unpaved roads, crane platforms, runways and pavement base reinforcement. Its use is standardised by **AASHTO R 50**.

THE RANGE (ASTM D6637)

SB11	12.4 / 19.0 kN/m · aperture 25 × 36 mm
SB12	19.1 / 28.7 kN/m · aperture 25 × 36 mm
SB30	30.0 / 30.0 kN/m · aperture 36 × 33 mm
Seam	93% efficiency (GRI-GG2)
Quality	ISO 9001 · CE marking · GAL-LAP

Ece project: 60,000 m² of biaxial geogrids supplied for the reinforcement of at-grade transitions at sub-base level on the **Route PY12**.



THIS PRODUCT ON THE WEB

epcepy.com/productos/geogrillas-rigidas.html · Technical data sheet PDF: epcepy.com/catalogos.html



Woven reinforcement geotextile laid on site

2,778

N/5CM IN WARP AND WEFT

265

G/M² WEIGHT

UV

STABILISED FOR EXPOSURE

1.5

L/S/M² OF PERMEABILITY

Balanced reinforcement in both directions. The **GeoPex Style 50x50** from Rafitec/Propex (Curitiba, Brazil) is a woven polypropylene geotextile with identical strength in warp and weft (2,778 N/5cm typical, 2,400 minimum): the workhorse fabric for **soil reinforcement, structural separation and sediment containment** where real tensile strength is needed at a low cost per m².

UV stabilised to stay exposed during construction, with controlled elongation (19% warp / 13% weft) and permeability that lets water drain without losing fines. Produced by Propex do Brasil — the same maker as the AcquaPex geomembrane.

Typical uses on our projects: working platforms over soft soils, reinforcement of displacement embankments, drain wrapping and temporary bank defences. On the **Route PY12** it was specified over the subgrade to double the structural coefficient of the upper layer.

TECHNICAL DATA (TYPICAL / MINIMUM)

Weight	265 g/m ² ±5% (ASTM D-3776)
Strip tensile	2,778 / 2,400 N/5cm (ASTM D-5035)
Elongation	19% warp · 13% weft
Permeability	1.5 L/s/m ² (ASTM D-4491)
Colour	White/white · width ±2 cm

For filtration and protection — not reinforcement — the answer is the StrataTex™ nonwoven geotextile (P-15).



THIS PRODUCT ON THE WEB

epcepy.com/productos/geotextiles-tejidos.html · Technical data sheet PDF: epcepy.com/catalogos.html



Nonwoven geotextile in a filtration and separation role

100–600G/M² AS REQUIRED**4**FUNCTIONS: FILTER ·
SEPARATE · DRAIN ·
PROTECT**pH 2–13**

CHEMICAL RESISTANCE

+50

YEARS OF SERVICE LIFE

The universal filter on site. Permeable sheets made by needle punching from polypropylene or polyester fibres: they let water through while retaining the solid particles, **without clogging**. Its main function is filtration, the separation of layers of different materials and the protection of geomembranes against puncture.

They resist aggressive chemical environments and UV radiation; on roads they prevent contamination of the granular layer by fine soils and in landfills they **protect the impermeable barrier** from the rocks of the drainage material. Supplied with Strata's technical backing, in weights from 100 to 600 g/m².

Rule of thumb: every drain needs a filter and every geomembrane needs a cushion — the nonwoven is both, at the lowest cost in the catalogue.

SPECIFICATIONS

Fibres	Staple PP · continuous PET
Process	Needle punching
Weights	100 – 600 g/m ²
Chemistry	pH 2–13 · UV stabilised
Applications	Drain filtration · layer separation · geomembrane protection · roads

**THIS PRODUCT ON THE WEB**

epcepy.com/productos/geotextiles-no-tejidos.html · Technical data sheet PDF:
epcepy.com/catalogos.html

STRATADRAIN™ DRAINAGE GEOCOMPOSITES

STRATA



Geocomposite laid over a platform, ready for the fill · Strata

5

GRADES: SD 40·45·50 ·
TD 50 · HF 55

1.75

L/M·S IN-PLANE FLOW
(HF)

3.8 m

OF ROLL WIDTH

pH 2–10

DURABLE IN AGGRESSIVE
SOILS

The drain that rolls out like a blanket. StrataDrain™ combines an HDPE drainage geonet — biplanar (SD series) or triplanar (TD and HF) — with nonwoven geotextiles laminated on one or both faces: water enters filtered through the textile, runs along the channels of the core and is collected at the foot of the system — **no gravel, no perforated pipe, no over-excavation.**

It is the standard solution for **drainage behind retaining walls**, landfills, road and railway platforms, and reinforced slopes. Ece integrates it with StrataGrid and StrataWeb to solve stability and water in a single piece of engineering.

The 2024 range: SD 40 / SD 45 / SD 50 (biplanar, 4.8–6.2 mm) · TD 50 (triplanar) · HF 55 (high-flow triplanar). Ece sizes the grade to the load and gradient at no charge.

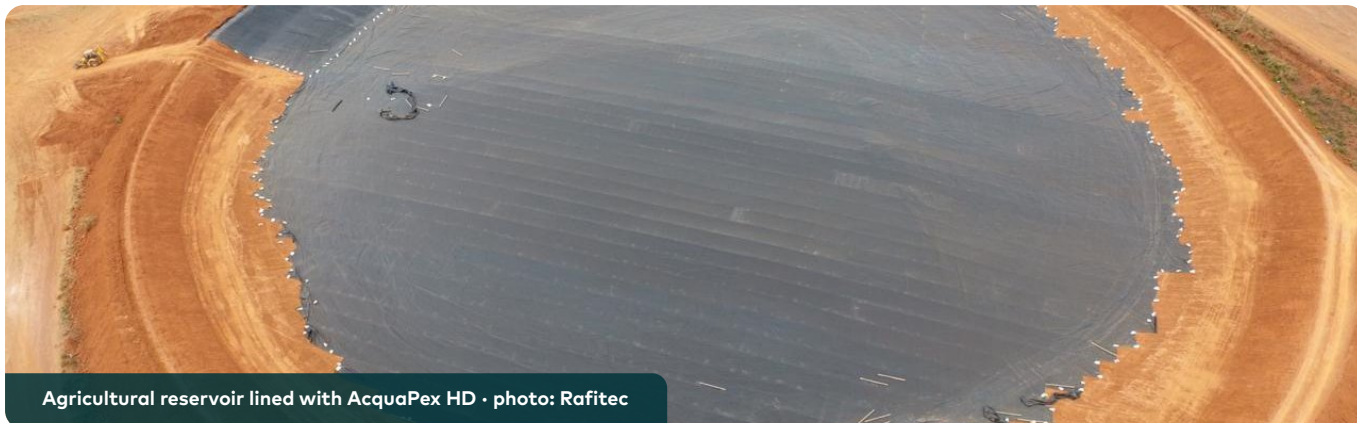
SPECIFICATIONS

Structure	HDPE geonet + PP geotextiles
Configuration	Laminated on 1 or 2 faces
Thickness	4.8–6.2 mm (ISO 9863-1)
Tensile strength	19–21.5 kN/m (ISO 10319)
Applications	Wall backs · landfills · platforms · reinforced slopes · tunnels



THIS PRODUCT ON THE WEB

epcepy.com/productos/geocompuestos-drenantes.html · Technical data sheet PDF:
epcepy.com/catalogos.html



Agricultural reservoir lined with AcquaPex HD · photo: Rafitec

700 μOF THICKNESS
(ACQUAPEX HD)**40/40**

KN/M MD/TD TENSILE

5,275 N

CBR PUNCTURE

7

YEARS OF WARRANTY

Waterproofing with muscle. AcquaPex® HD is a geomembrane **reinforced HDPE + LDPE**: the internal weave gives it tensile and puncture resistance far above a plain membrane of the same thickness, with excellent UV stability (OIT 850 min) for exposed use.

Lighter and faster to install than conventional thick geomembranes: wide panels, fewer welds, suited to irregular ground. The range is completed by **AcquaPex Pro** for higher requirements. Specification reference: GRI-GM30.

Ece installation: deployment, hot-wedge welding and quality control on site with our own crews — the same proven technique as in our lining projects across the country.

ACQUAPEX HD — DATA

Thickness	0.70 mm (ASTM D-751)
Tear strength	405/355 N (ASTM D5884)
UV / OIT	>50% retention · 850 min
Colours	Green/black · black/white
Applications	Reservoirs and aquaculture · effluent ponds · channels · landfills · floating covers

**THIS PRODUCT ON THE WEB**

epcepy.com/productos/geomembranas.html · Technical data sheet PDF: epcepy.com/catalogos.html



Rolling out Bentone® over the area to be lined

3

TYPES: AS2500 • AS3500 • CL

 8×10^{-9} (M³/M²)/S FLUX — AS3500

≥25 ml

FREE SWELL / 2 G

1 m

OF COMPACTED CLAY REPLACED

Clay that comes in rolls. Bentone® encapsulates natural sodium bentonite between a woven and a nonwoven geotextile needle-punched together: the internal reinforcement keeps the clay from migrating and holds permeability extremely low under any site condition. On hydration the bentonite swells and seals — **it even self-heals small punctures.**

The range: **AS2500** for general lining, **AS3500** where more is demanded, and **CL** laminated with geofilm — no measurable flux — for landfill caps and liquid containment. It is installed by simple overlap, **with no welding and no special equipment.**

The replacement for compacted clay: a 5 m wide roll replaces up to 1 m of clay — no borrow pits, no layer-by-layer testing. CE sizes the type for your project at no charge.

THE RANGE

AS2500	≥2.5 kg/m ² · rolls 60×5 m
AS3500	≥3.5 kg/m ² · rolls 50×5 m
CL	LDPE geofilm · no measurable flux
Bentonite	Natural sodium · ≥80% montmorillonite
Applications	Landfills · ponds · channels · tank bunds · mining



THIS PRODUCT ON THE WEB

epcepy.com/productos/bentonita.html · Technical data sheet PDF: epcepy.com/catalogos.html

STRATASLOPE® · LOCK+LOAD® MECHANICALLY STABILISED EARTH WALLS



Lock+Load wall on a road project — textured concrete face

≤70°

STRATASLOPE: GREEN OR
STONE FACE

FS>2.0

LOCK+LOAD:
OVERTURNING AND
BEARING (FHWA)

−20/30%

VS. TRADITIONAL RIGID
RETENTION

Local

MANUFACTURE UNDER
LICENCE ON SITE

The difference in level, solved with the soil on site.

StrataSlope™ builds reinforced slopes and walls up to 70°: layers of compacted fill reinforced with StrataGrid geogrids, recoverable front formwork and a face finished in vegetation or stone — the retaining structure disappears into the landscape.

Lock+Load™ is the panel-and-counterfort MSE wall: concrete modules stacked with no formwork or heavy cranes, geogrid perpendicular to the face, a stone drain and pipework behind the facing. Design to **FHWA-NHI-00-043 (AASHTO)**; the units can be made locally under licence.

THE TWO SYSTEMS

StrataSlope™	Slopes 45–70° · vegetated or stone face
Lock+Load™	MSE walls · panel + counterfort
Reinforcement	StrataGrid SGU to calculation
Safety	SF: sliding >1.5 · overturning >2.0
Applications	Road widenings · abutments · landslide recovery · developments on sloping ground

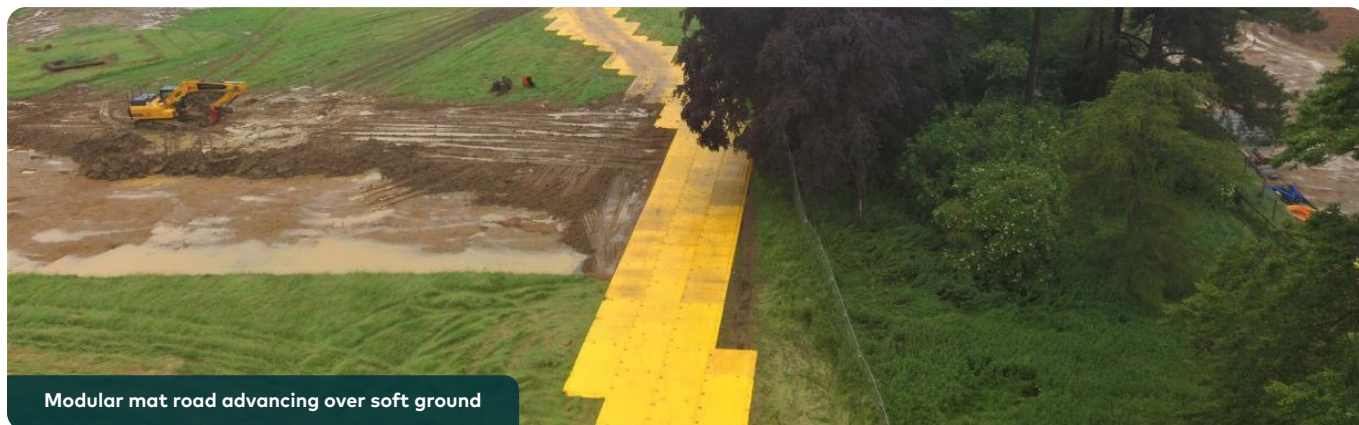
Total synergy: a Lock+Load wall + StrataDrain drainage + Profile hydroseeding on the crest + HYDROTEX mattresses at the toe — the brands in the catalogue working together on one project.



THIS PRODUCT ON THE WEB

epcepy.com/productos/muros-suelo-reforzado.html · Technical data sheet PDF:
epcepy.com/catalogos.html

DISPLACEMENT EMBANKMENT



Modular mat road advancing over soft ground

0

SETTLEMENT — THE LOAD IS SPREAD

Modular

BOLTED LAP JOINTS

100%

RECOVERABLE AT THE END OF THE WORKS

2

FACES WITH A NON-SLIP SURFACE

The displacement embankment, brought up to date. Where fill and logs used to be sacrificed to get into a marsh, today you lay a road of **high-strength composite mats** that spreads the load over the soft soil: the works advance, heavy plant circulates and the ground does not fail.

The mats are joined by bolted overlap forming a continuous, non-slip surface; the solid core and the lifting inserts make it possible to place and recover them with a crane, one by one, ahead of the work front — and **remove them at the end without leaving any environmental liability**.

Where it pays off: site access roads in marshes and wetlands, crane and drilling platforms, crossings of watercourses and temporary helipads. Ece sizes the arrangement to the plant and the soil at no charge.

SPECIFICATIONS

System	High-strength composite mats
Joints	Bolted over-lap/under-lap joint
Lifting	Threaded inserts + pockets
Reuse	Recoverable and reusable
Applications	Access over soft soils · crane platforms · marshes · temporary crossings



Placed with a crane — the road advances with the works



TECHNICAL DATA SHEET ON THE WEB

epcepy.com/catalogos.html — Geo Soluções brochure with the complete system.



Base stabilised with BS Plus during compaction

+CBR

INCREASES THE BEARING CAPACITY

1:1000

AT 1:2000 — DOSAGE BY WEIGHT

0

HARDCORE OR HAULED AGGREGATES

Rain

IT WORKS EVEN IN THE WET SEASON

The soil already there, turned into base. BlindaSolo® BS Plus is a chemical stabiliser that **reverses the polarity of the soil particles**: by cation exchange it increases cohesion and reduces the adsorbed water layer — the site's own soil becomes base, sub-base or subgrade reinforcement, with no stone to haul.

The “armoured” base reduces water absorption, capillary rise and swelling, and **increases the CBR**. In sandy soils it is dosed with aluminium sulphate; in clayey or silty soils, with hydrated lime or cement. Environmentally sound: it does not pollute and avoids quarrying.

Where it pays off: roads, highways and railways, industrial and logistics yards — especially where granular material is expensive or far away. Ece sets the dosage from the soil test at no charge.

SPECIFICATIONS

Product	BS Plus — concentrated liquid
Action	Cation exchange
Dosage	1:1000–1:2000 + additive to suit the soil
Soils	Sandy · silty · clayey
Applications	Roads and highways · railways · industrial yards · bases and subgrades

**TECHNICAL DATA SHEET ON THE WEB**

epcepy.com/catalogos.html — BlindaSolo data sheet in the Geo Soluções library.



Filled geotubes in a dewatering operation

-90%OF DEWATERED SLUDGE
VOLUME**>99%**

OF SOLIDS CAPTURE

3STEPS: FILLING ·
DEWATERING ·
CONSOLIDATION**Made to
measure**CIRCUMFERENCE AND
LENGTH TO PROJECT

Low-cost, high-volume dewatering. The sludge is pumped into the geotube with environmentally safe polymers: the solids flocculate and stay confined, and the water drains out clean through the textile — **no belts, no gears, no presses**. The filtrate can be collected and recirculated.

The units come in made-to-measure sizes and can be assembled in **mobile containers**. With over 99% capture and up to 90% less volume, the residue is removed dry with an excavator. In the marine version, filled with sand, it builds groynes and coastal defences.

World reference: on the Fox River (USA) 570,000–765,000 m³ of contaminated sediment are dewatered behind dredges of more than 450 m³/h, with final solids >50%.

SPECIFICATIONS

Functions	Confine · contain · filter
Capture	>99% of solids
Filling	Successive cycles with polymers
Format	Made to measure · mobile containers
Applications	Treatment plants · dredging · industrial and mining sludge · agro-industry · groynes



The result: clarified water at the foot of the tube

**THIS PRODUCT ON THE WEB**

epcepy.com/productos/geotubos.html · Technical data sheet PDF: epcepy.com/catalogos.html



CONTROL DE EROSIÓN

Let's talk about your project

ADDRESS

Tte. Héctor Vera 2136 esq. Raúl Carmona,
C.P. 1820, Asunción, Paraguay

TELEPHONE

+595 981 003532

E-MAIL AND WEB

info@epcepy.com
epcepy.com

NETTING

Instagram and Facebook: @epcepy
LinkedIn: /company/epcepy



CONTACT



PDF CATALOGUES



PROJECTS



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