

PENNPLAN
Focus on Geotech

PENNPLAN CO., LTD

Add: Licheng District, Jinan, Shandong, P.R. China

E-mail: Info@pennplan.com

Tel: +86 531 88767934

Web: www.pennplan.com

PENNPLAN
Focus on Geotech



A MEMBER OF
PENNINT

YOUR RELIABLE PARTNER

PENNPLAN reserves the right to alter the specification without prior notification to users.

About us

Who we are

PENNPLAN originated from PENNINT, founded in 2013, which has established itself as a trusted name in waterproofing industry. With a strong commitment to innovation and customer satisfaction, PENNPLAN commits to be the one stop service platform of engineering project. PENNPLAN produces large range of products with latest technologies and standards, those ensure that PENNPLAN is always able to meet with customers' requirements. As a tech-service oriented company, PENNPLAN has fully devoted into geosynthetics industry and willing to create more value for the market.

Management Philosophy

Credit & Quality & Service create a bright future.

Social Responsibility

Scientific development; Environmental protection; Concerning philanthropy.

Company Mission

Creating green environment, protecting the earth's ecological.

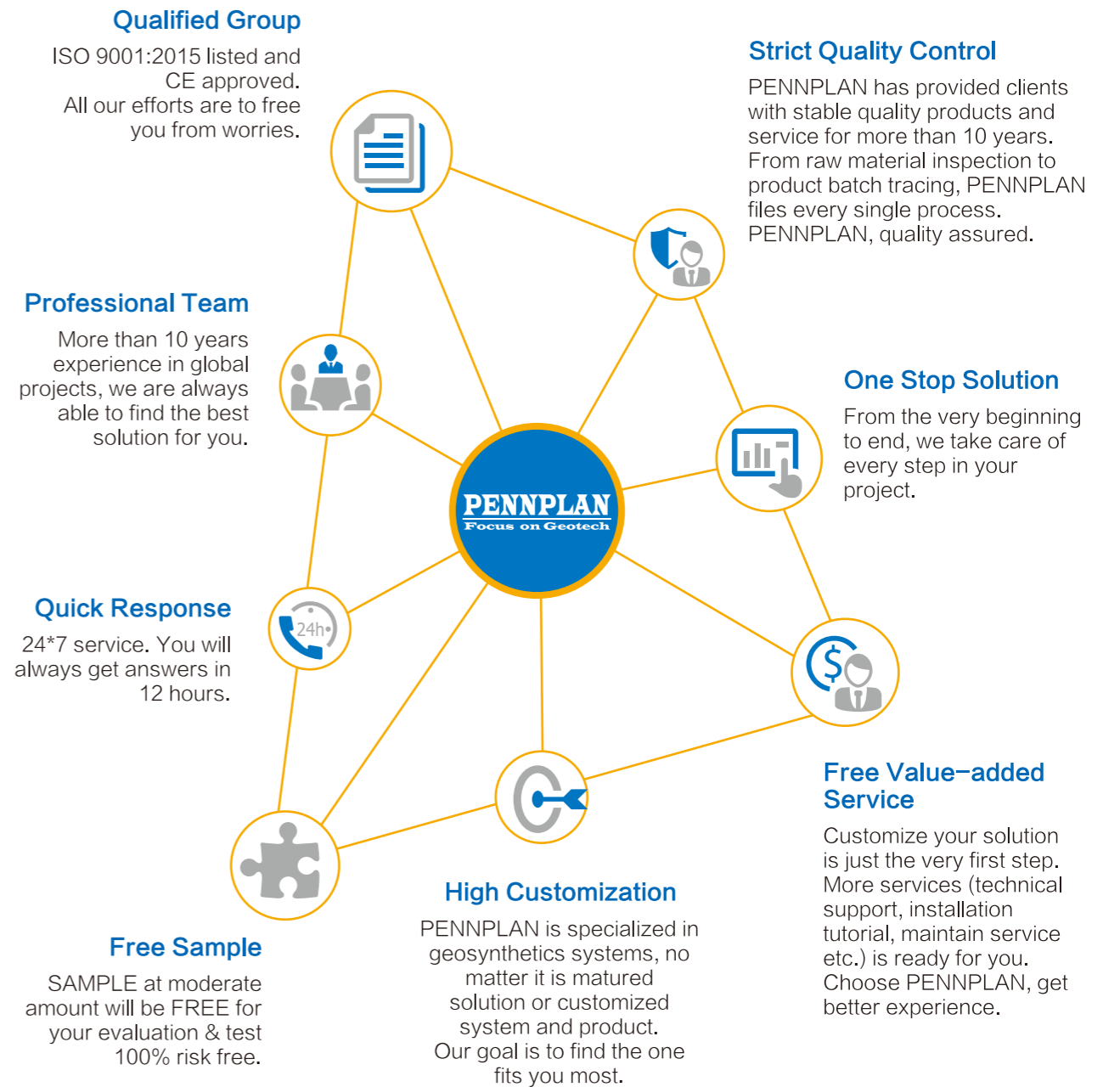
Company Vision

Give best solution for each project to keep earth healthy.

Company Goal

Building a trustworthy geotech brand for customers.

NOT ALL GEOTECH COMPANY NAMED PENNPLAN...



PENNPLAN HDPE Geomembrane

PENNPLAN is a kind of flexible, eco-friendly, non-poison, strong plastics geomembrane based on premium quality high density polyethylene(HDPE), with excellent durability for geotechnical projects.



CHOOSE THE TYPE

- PENNPLAN HP – HDPE homogeneous membrane.
- PENNPLAN TX – HDPE textured membrane.
- PENNPLAN HP-GL – HDPE membrane coated with GL fabric.
- PENNPLAN HP-GF – HDPE membrane coated with GF fabric.

Type	Thickness	Width	Length
PENNPLAN HP 300	0.3mm	2m, 3m, 5.8m, 6m, 7m, 8m	200m
PENNPLAN HP/TX 500	0.5mm	2m, 3m, 5.8m, 6m, 7m, 8m	200m
PENNPLAN HP/TX 750	0.75mm	2m, 3m, 5.8m, 6m, 7m, 8m	200m
PENNPLAN HP/TX 1000	1.0mm	2m, 3m, 5.8m, 6m, 7m, 8m	200m
PENNPLAN HP/TX 1500	1.5mm	2m, 3m, 5.8m, 6m, 7m, 8m	100m
PENNPLAN HP/TX 2000	2.0mm	2m, 3m, 5.8m, 6m, 7m, 8m	50m

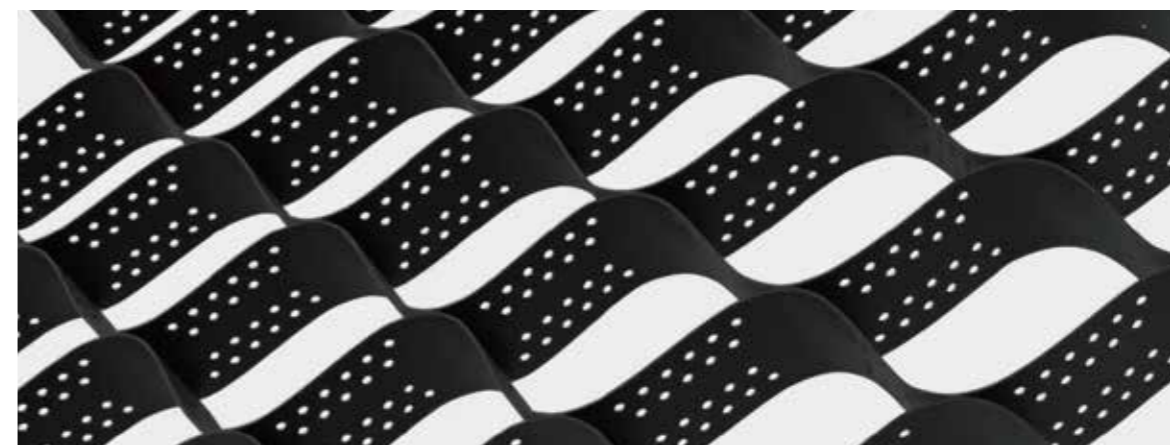
Type	Thickness	Width	Length
PENNPLAN HP-GL/HP-GF 500	500g	2m, 3m, 5.8m, 6m	200m
PENNPLAN HP-GL/HP-GF 1000	1000g	2m, 3m, 5.8m, 6m	200m
PENNPLAN HP-GL/HP-GF 1500	1500g	2m, 3m, 5.8m, 6m	100m
PENNPLAN HP-GL/HP-GF 2000	2000g	2m, 3m, 5.8m, 6m	100m

WHERE TO APPLY?

- PENNPLAN HDPE geomembrane is commonly used as pond liner or underlay for variety of projects. Environmental protection and environmental sanitation; Water conservancy; Municipal projects: Landscape garden; Mine industry; Traffic facilities; Agriculture; Aquaculture industry; Landfill; Reservoir; Tailing storage.

PENNCCELL HDPE honeycomb confinement system

PENNCCELL is a kind of prefabricate, expanded, three dimensional reinforcement cellular confinement system to improve the base condition.



CHOOSE THE TYPE

- PENNCCELL SM – HDPE Smooth surface cell.
- PENNCCELL TH – HDPE Textured with holes cell.
- PENNCCELL PCA – PCA Textured with holes cell.

Type	Thickness	Cell Height	Cell Size (Appx.)
PENNCCELL SM/TH/PCA 330	1.5mm	50mm, 75mm, 100mm, 150mm, 200mm, 300mm	248mm x 214mm
PENNCCELL SM/TH/PCA 356	1.5mm	50mm, 75mm, 100mm, 150mm, 200mm, 300mm	267mm x 230mm
PENNCCELL SM/TH/PCA 445	1.5mm	50mm, 75mm, 100mm, 150mm, 200mm, 300mm	320mm x 288mm
PENNCCELL SM/TH/PCA 660	1.5mm	50mm, 75mm, 100mm, 150mm, 200mm, 300mm	489mm x 422mm
PENNCCELL SM/TH/PCA 712	1.5mm	50mm, 75mm, 100mm, 150mm, 200mm, 300mm	527mm x 454mm

WHERE TO APPLY?

- Foundation reinforcement; Soft foundation treatment; Slope protection; Erosion control; Landslide prevention; Soil stabilization; River channel reinforcement; Embankment greening.

PENNCRETE

Concrete blanket

PENNCRETE is a kind of thin waterproof and fireproof durable concrete layer with a high strength three dimensional structure.



CHOOSE THE TYPE

- PENNCRETE WN – Woven fabric backup layer.
- PENNCRETE FG – Fiberglass fabric backup layer.
- PENNCRETE BW – Basalt fabric backup layer.

Type	Thickness	Roll Width	Roll Length
PENNCRETE WN/FG/BW 6	6mm	2m	50m
PENNCRETE WN/FG/BW 8	8mm	2m	50m
PENNCRETE WN/FG/BW 10	10mm	2m	50m
PENNCRETE WN/FG/BW 15	15mm	2m	25m

WHERE TO APPLY?

- Ditch lining; Channel; slope protection; Water conservancy; Artificial lake; Railway; Oil tank; Oilfield; Hydro station; Wetland; Temporary road; Mining project; Dam repair.

PENNPOND

EPDM pond liner

PENNPOND is a kind of foldable, flexiable, anti UV, highly impermeable liner used for retention of liquids.



Type	Thickness	Width	Length
PENNPOND 1000	1.0mm	3m	30m
PENNPOND 1200	1.2mm	3m	30m
PENNPOND 1500	1.5mm	3m	30m
PENNPOND 2000	2.0mm	3m	30m

WHERE TO APPLY?

- PENNPOND is always used as a liner for pond, artificial lake, landscape, wetland, and various projects.

PENNPOOL PVC pond liner

PENNPOOL is a kind of water tight thin sheet used for lining ponds with a light weight. It is easy installation and very flexible moulding readily around corners and shelves.



Type	Thickness	Width	Length
PENNPOOL 400	0.4mm	2m-4m	50-100m
PENNPOOL 500	0.5mm	2m-4m	50-100m
PENNPOOL 650	0.65mm	2m-4m	50-100m
PENNPOOL 750	0.75mm	2m-4m	50-100m

WHERE TO APPLY?

- PENNPOOL is suitable for small to medium ponds and ornamental garden ponds, having excellent flexibility and high puncture resistance.

PENNSAFE Fire retardant containment uni-mesh

PENNSAFE is a kind of durable and reusable, dust-proof, wind-proof and noise-proof protection net. It is composite material welded by PE mesh and PENNGRID.



Type	Color	Roll height	Roll length
PENNSAFE 95	Blue, Red, Orange	0.95m	10m/15m/25m
PENNSAFE 195	Blue, Red, Orange	1.95m	10m/15m/25m

WHERE TO APPLY?

- Scaffolding system; full protection of staff; dust proof and noise proof; frame screen; protection over the pavement; military protective screen.

PENNTEXT

Filtering and drainage fabric

PENNTEXT is a kind of flexible, strong, eco-friendly, non-woven separation and protection sheet based on polyester/ polypropylene, with light weight, high tensile strength, good permeability.



CHOOSE THE TYPE

- PENNTEXT GL – Short fiber polyester fabric.
- PENNTEXT GF – Filament fiber polyester fabric.
- PENNTEXT GP – Polypropylene fiber fabric.

Type	Mass	Width	Length
PENNTEXT GL/GF/GP 100	100g	3.2m, 3m, 5.8m, 6m	200m
PENNTEXT GL/GF/GP 150	150g	3.2m, 3m, 5.8m, 6m	200m
PENNTEXT GL/GF/GP 200	200g	3.2m, 3m, 5.8m, 6m	100m
PENNTEXT GL/GF/GP 300	300g	3.2m, 3m, 5.8m, 6m	100m
PENNTEXT GL/GF/GP 400	400g	3.2m, 3m, 5.8m, 6m	100m
PENNTEXT GL/GF/GP 500	500g	3.2m, 3m, 5.8m, 6m	50m
PENNTEXT GL/GF/GP 600	600g	3.2m, 3m, 5.8m, 6m	50m
PENNTEXT GL/GF/GP 700	700g	3.2m, 3m, 5.8m, 6m	50m
PENNTEXT GL/GF/GP 800	800g	3.2m, 3m, 5.8m, 6m	50m

WHERE TO APPLY?

- PENNTEXT could be widely used in water conservancy, electricity, mines, roads and railways with a usage of filtering, drainage, insulation and anti-cracking.

PENNLINER

Bentonite anti-leak blanket

PENNLINER is a kind of non-toxic, harmless, environmentally friendly, low temperature resistant, waterproofing geosynthetic material.



CHOOSE THE TYPE

- PENNLINER NP – Needle punched.
- PENNLINER OF – Needle punched coated with membrane.

Type	Mass	Width	Length
PENNLINER NP/OF 4000	4000g	6m	30m
PENNLINER NP/OF 4500	4500g	6m	30m
PENNLINER NP/OF 5000	5000g	6m	30m
PENNLINER NP/OF 5500	5500g	6m	30m
PENNLINER NP/OF 6000	6000g	6m	30m
PENNLINER NP/OF 7000	7000g	6m	30m
PENNLINER NP/OF 8000	8000g	6m	30m

WHERE TO APPLY?

- PENNLINER mainly used in artificial lakes, landfills, underground garages, roof gardens, pools, ponds, oil depots, chemical storage yards, and seepage control engineering.

PENNMAT 3D geomat

PENNMAT is a kind of grading protection system made of HDPE with gaps that promotes the germination and growth of grass seeds and improves slope stability and erosion resistance.



Type	Thickness	Width	Length
PENNMAT 220	10mm	2m	50m
PENNMAT 260	12mm	2m	50m
PENNMAT 350	14mm	2m	50m
PENNMAT 430	16mm	2m	30m

WHERE TO APPLY?

- PENNMAT mainly used for slope protection and greening on roads, railways, rivers, dams, mines, etc.

PENNET Composite drainage net

PENNET is a kind of filtering, drainage, protection and support function three dimensional construction net, has good hydraulic conductivity, high tensile strength and shear strength, working as separation or protecting layers.



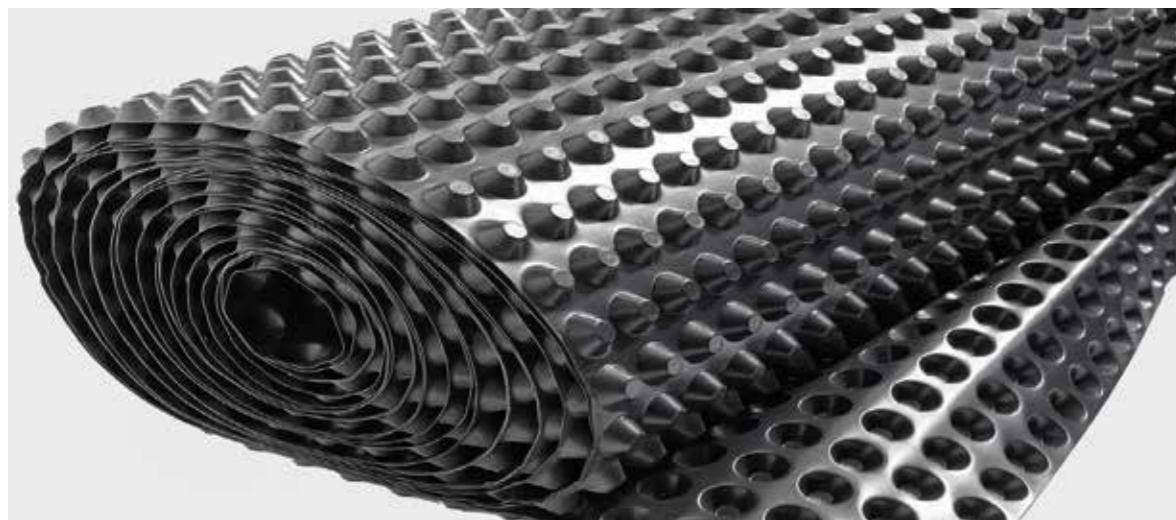
Type	Width	Length
PENNET 402	2m, 3m, 6m	30m
PENNET 502	2m, 3m, 6m	30m
PENNET 602	2m, 3m, 6m	30m
PENNET 702	2m, 3m, 6m	30m
PENNET 802	2m, 3m, 6m	30m

WHERE TO APPLY?

- Drainage projects of landfills, railways, highways, tunnels, municipal works, reservoirs, and seepage water drainage at building structures such as bridge abutments.

PENNPLAS HDPE drainage board

PENNPLAS is a kind of dimpled plastic sheet that provides effective drainage and waterproof membrane protection on foundation walls and other underground structures.



CHOOSE THE TYPE

- PENNPLAS DB – HDPE dimple sheet.
- PENNPLAS DB-GL – HDPE dimple sheet coated with GL fabric.

Type	Height	Width	Length
PENNPLAS DB/DB-GL 800	8mm	3m	15m
PENNPLAS DB/DB-GL 1000	10mm	3m	15m
PENNPLAS DB/DB-GL 1200	12mm	3m	15m
PENNPLAS DB/DB-GL 1500	15mm	3m	15m
PENNPLAS DB/DB-GL 1600	16mm	3m	15m
PENNPLAS DB/DB-GL 1800	18mm	3m	15m
PENNPLAS DB/DB-GL 2000	20mm	3m	15m
PENNPLAS DB/DB-GL 2500	25mm	3m	10m
PENNPLAS DB/DB-GL 3000	30mm	3m	10m

WHERE TO APPLY?

- Building foundations upper and lower floors; basement inner walls; garage roof greening; tunnels; ground slabs.

PENNDRATE Dewatering container

PENNDRATE is a kind of high-tenacity polypropylene dewatering fabric container, provides excellent solids retention and rapid discharge of high-quality filtrate. It is high-strength, anti-UV, durable, and cost effective.



CHOOSE THE TYPE

- PENNDRATE DW – PP dewatering container.
- PENNDRATE DW-GL – PP dewatering container with GL fabric.

Type	Parameter	Length
PENNDRATE DW/DW-GL 55	As project indicators	As project indicators
PENNDRATE DW/DW-GL 90	As project indicators	As project indicators
PENNDRATE DW/DW-GL 100	As project indicators	As project indicators
PENNDRATE DW/DW-GL 130	As project indicators	As project indicators
PENNDRATE DW/DW-GL 220	As project indicators	As project indicators

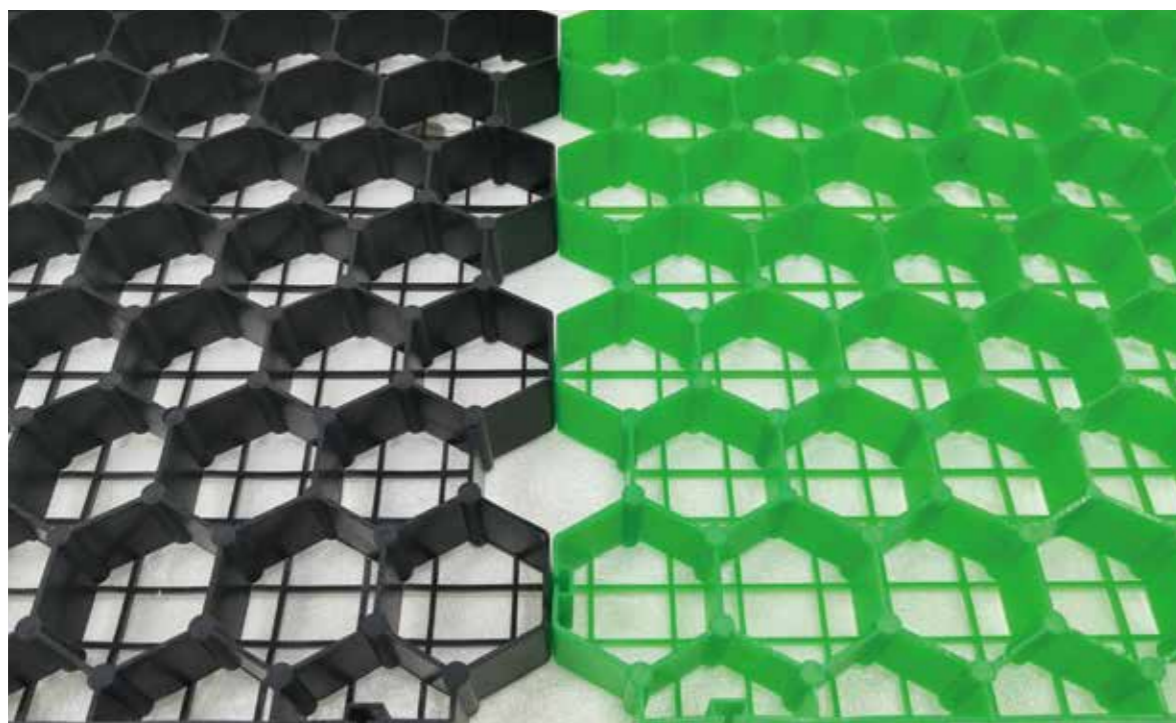
WHERE TO APPLY?

- Damming projects for beach protection, embankment projects, sea reclamation and cofferdam projects for artificial islands, rapid dehydration and solidification of sludge from paper mills and tailings and landfills.

PENPAVER

Plastic grass grid

PENPAVER is a green, reusable, pressure-resistant, wear-resistant and corrosion-resistant, easy overlapping HDPE plastic high strength grid.



CHOOSE THE TYPE

- PENPAVER FL – grid with flat edge.
- PENPAVER IR – grid with irregular edge.

Type	Height	Width	Length
PENPAVER FL/IR 38	38mm	500mm	500mm
PENPAVER FL/IR 48	48mm	500mm	500mm
PENPAVER FL/IR 68	68mm	500mm	500mm

WHERE TO APPLY?

- PENPAVER widely used in foundation reinforcement of parking lots, fire lanes, golf lanes, sidewalks, as well as convention and exhibition centers, modern factories, high-end living communities, rooftop gardens.

PENBAG

Non woven geobag

PENBAG is a non-toxic, anti-aging, anti-UV, degradable, high and low temperature resistant, non-woven bag.



CHOOSE THE TYPE

- PENBAG GL – GL fabric bag.
- PENBAG GF – GF fabric bag.
- PENBAG GP – GP fabric bag.

Type	Size
PENBAG GL/GF/GP	40x80cm or as indicators
PENBAG GL/GF/GP	40x60cm or as indicators
PENBAG GL/GF/GP	50x80cm or as indicators

WHERE TO APPLY?

- As an ecological restoration and environmental protection material, PENBAG is widely used in river-bank and embankment slope protection, mine greening, railway and highway slope protection, flood control emergencies, military bunkers, artificial wetlands, etc.

PENNFLAT

EVA waterproof membrane

PENNFLAT is a kind of flexible sheet material with excellent resistance to environmental stress cracking, good toughness, weather resistance, low-temperature resistance, especially suitable for the inner surface of vaults.



CHOOSE THE TYPE

- PENNFLAT EH – Homogeneous membrane.
- PENNFLAT EP – Reinforced membrane.
- PENNPLAT EL – Fleece backed membrane.
- PENNFLAT EA – Self adhesive membrane.

Type	Thickness	Width	Length
PENNFLAT EH/EP/EL/EA 800	0.8mm	2m,3m	25m
PENNFLAT EH/EP/EL/EA 1000	1.0mm	2m,3m	25m
PENNFLAT EH/EP/EL/EA 1500	1.5mm	2m,3m	25m
PENNFLAT EH/EP/EL/EA 2000	2.0mm	2m,3m	25m

WHERE TO APPLY?

- PENNPLAT applies to a variety of underground caves, tunnels, subways, municipal construction and other waterproofing and seepage-proofing works.

PENNGUARD

Erosion control mat

PENNGUARD is a slope greening material that can prevent soil erosion, has high permeability and erosion resistance, acid and alkali resistant, anti-UV and protects the integrity of plant roots and soil stability.



CHOOSE THE TYPE

- PENNGUARD PA – Polyamide material mat.
- PENNGUARD PP – Polypropylene material mat.

Type	Thickness	Width	Length
PENNGUARD PA/PP 10	10mm	2m	25m
PENNGUARD PA/PP 20	20mm	2m	25m
PENNGUARD PA/PP 30	30mm	2m	25m

WHERE TO APPLY?

- Highway and railway embankments and slope protection on both sides of the road; River and water bank slope protection; Exposed mountain protection.