

EnviDrain

Protect our earth,
protect your land



Introduction of EnviDrain

Matala® EnviDrain is the most advanced efficient and economic solution for drainage, infiltration and sub-surface irrigation.

Matala EnviDrain is composed of thermo-polypropylene fibers formed into a 3-dimensional web structure with high compression strength and structural strength while providing a maximum void space, surface porosity, and excellent drainage/infiltration efficiency.

Features and Benefits of EnviDrain

- 1. High surface porosity :** (Envidrain is 90%-95% while perforated pipe is 15-20%)
 - It provides for multiple evenly spread pores for water to pass and also shortens the distance for water to flow through sand, soil or stone before reaching the drainage core.
 - Reduced occurrence of plugging, even when there is lots of water accumulated in a short time.
- 2. High Compression Strength:**

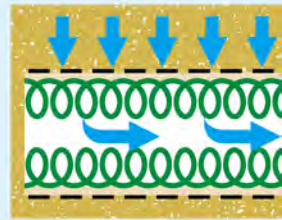
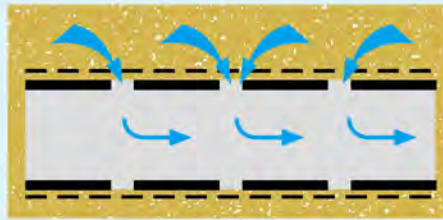
Envidrain has a three-dimensional web structure and is made of thermo-polypropylene fiber which is curled, looped and welded at multiple points. This results into a superior compression strength and buffer of forces in all directions and angles.
- 3. Excellent drainage and water storage capacity :** (85%-90% void space)

Envidrain pipe has a hollow cylindrical core which tremendously increases the draining efficiency.
- 4. Light weight and Easy installation :**

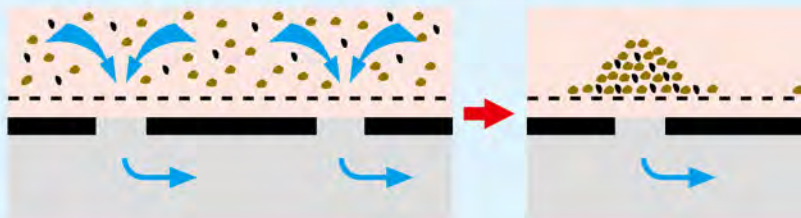
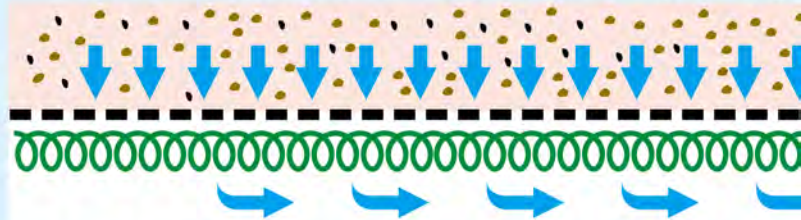
easy installation and easy transportation
- 5. Durable :** Weather and chemical resistance

High surface porosity

Surface porosity : perforated pipe is 15-20%, EnviDrain is 90-95%



EnviDrain provides for a higher surface porosity and shorter passage way same distance as compared to perforated pipe. Higher drainage efficiency a



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High compression strength

Easy installation

Compression Strength EnviDrain Pipe :

Test Item \ Product Type	EDPPD080GN	EDPPD125GN	EDPPD150GN
Compression Strength at 5% Strains of external diameter	1493	1147	1075
Compression Strength at 10% Strains of external diameter	3073	1927	1706
Compression Strength at Broken(kgf/m)	4553	2587	2030

▲ tests method ref. : ASTM D2412-96a ▲ compress speed : 12.0±0.5mm/min

Compression Strength EnviDrain Panel

Test Item \ Product Type	EDPP0320GN	EDPP0420GN	EDPP0530GN/ EDPP0550GN
Compression strength at 30% Strain(kgf/m ²)	10,530	13,700	35,598
Compression strength at 70% Strain(kgf/m ²)	64,775 (Breaking down)	54,700	27,4238

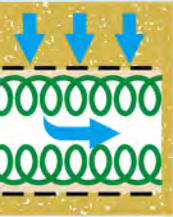
▲ tests method ref. : ASTM D1621-04a

Tensile Strength Geonet (TYPE : GNPA8020BK)

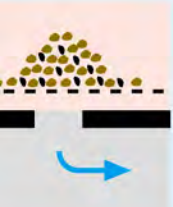
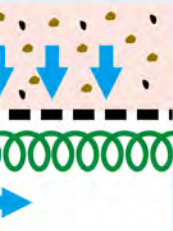
Tensile Strength (KN/m)	Horizontal Strength	1.3
	Vertical Strength	1.8

▲ tests method ref. : CNS 5610-1987

Sample proceeding in oven with tempture 85°C for 4hrs, moved out from oven in room tempture (23°C/65%RH) for 1 hour before proceeding the test.



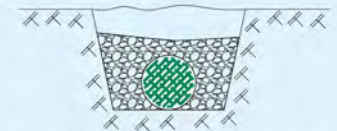
s within the
and less clogging



① Nonwoven pre-fabricated EnviDrain



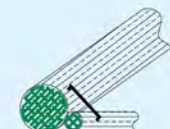
② Install nonwoven pre-fabricated EnviDrain Pipe in groove



③ Use nail connecting the EnviDrain Pipe or Panel (drawing shows the horizontal connections)



④ (Drawing shows when connecting EnviDrain in cross direction)



④ Fill up with gravel, soil etc...

Application of EnviDrain

Drainage for :

- Roads
- Sport field
- Cemetery ground
- Basement waterproofing
- Improving irrigation for plants
- Dump
- Tunnel
- Mountain slope
- Prevention of landslides
- Improving pressure and density of soil
- Railway
- Landfill
- Dirt roads
- Roof Garden
- Retaining wall
- Undergrounds steam
- Top cover of reservoir
- River or sea embankment



SPECIFICATIONS :

Matala® EnviDrain Pipe

Product Code	Measurements (cm)	Measurements (inch)
	Outside Diameter x Length	Outside Diameter x Length
EDPPD150GN	Ø15 x 200 cm	Ø5.9 x 78.7 inches
EDPPD125GN	Ø12.5 x 200 cm	Ø4.9 x 78.7 inches
EDPPD080GN	Ø8.0 x 200 cm	Ø3.15 x 78.7 inches

Matala® EnviDrain Panel

Product Code	Measurements (cm)	Measurements (inch)
	Thickness x Width x Length	Thickness x Width x Length
EDPP0550GN	5.0 x 50 x 200 cm	1.97 x 19.68 x 78.7 inches
EDPP0530GN	5.0 x 30 x 200 cm	1.97 x 11.81 x 78.7 inches
EDPP0420GN	4.0 x 20 x 200 cm	1.57 x 7.87 x 78.7 inches
EDPP0320GN	3.0 x 20 x 200 cm	1.18 x 7.87 x 78.7 inches

Matala® GeoNet

Product Code	Measurements (cm)	Measurements (inch)
	Thickness x Width x Length	Thickness x Width x Length
GNPA8016BK	1.6 x 100 x 5000 cm (Nylon)	0.63 x 39.37 x 1968.5 inches
GNPA8020BK	2.0 x 100 x 5000 cm (Nylon)	0.79 x 39.37 x 1968.5 inches
GNPP8016BK	1.6 x 100 x 5000 cm	0.63 x 39.37 x 1968.5 inches
GNPP8020BK	2.0 x 100 x 5000 cm	0.79 x 39.37 x 1968.5 inches

Matala® GeoNet binding with GeoGrid reinforcement

Product Code	Measurements (cm)	Measurements (inch)
	Thickness x Width x Length	Thickness x Width x Length
GNPA8220BK	2.0 x 100 x 1500 cm (Nylon)	0.79 x 39.37 x 590.5 inches
GNPA8230BK	3.0 x 100 x 1500 cm (Nylon)	1.18 x 39.37 x 590.5 inches
GNPP8220BK	2.0 x 100 x 1500 cm	0.79 x 39.37 x 590.5 inches
GNPP8230BK	3.0 x 100 x 1500 cm	1.18 x 39.37 x 590.5 inches

Matala®

Make water alive

MATALA WATER TECHNOLOGY CO., LTD.

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