



ALPHA MAT

Erosion Control Mat

SOIL EROSION - an increasing challenge

While soil erosion is a natural process, human activities has aggravated and intensify soil erosions. Excessive erosion could cause environmental problems leading to slope movements, sedimentation of waterways or even flooding. This presents an increasing problem and challenges for engineers.

ALPHA MAT - Erosion Control Mat provides the solution!

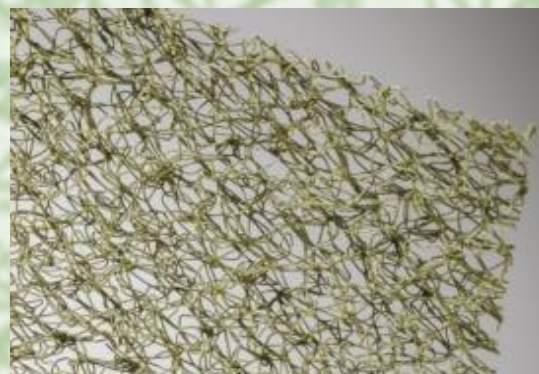
The unique Alpha Mat is available in 10mm and 20 mm thickness, is a three dimensional, olive green, entangled web of polypropylene monofilaments forming a sturdy erosion control mat. It is easy to install and maintain good ground contact on slopes up to 60° and delivers a lifetime of low-maintenance erosion control.



Natural soil reinforcement

As soon as the three-dimensional structure of Alpha Mat is installed, it provides micro stability at the slope surface. It creates an artificial root system by trapping soil particles and holding them in place thus allowing vegetation to grow through the mat for permanent reinforcement.

Alpha Mat covered with soil and seeds encourages vegetation creating a Turf Reinforcement Mat (TRM), which is capable of resisting soil erosion in hydraulic applications of moderate to high flow rates. Consequently Alpha Mat helps nature to develop its own strong green solution for long term erosion protection.



Applications:

Alpha Mat is ideal for erosion protection on **steep slopes** and **embankments, riverbanks, lakesides, shorelines, spillways, canals** and **ditches**.

It is also highly effective on golf course and residential lawn areas.

Performance and Dimensions - Alpha Mat 20mm (AM 20)		
Raw Material	Polypropylene	
Colour	Olive green	
Mass per unit area	EN ISO 9864	200 g/m ²
Working temperature range	-13°C to 100°C	
Strength (MD)	EN ISO 10319	0.5 kN/m
Strength (CMD)	EN ISO 10319	0.3 kN/m
Nominal thickness	EN ISO 9863-1	20 mm
Roll size	1.4 m x 150 m	
Roll diameter	1.20m	
Durability	To be covered within 4 weeks after installation Predicted to be durable for a minimum 25 years in natural soil with 4 < pH < 9	

Quick and Easy Installation – Instant Performance

Preparatory Work

1. Level the slope.
2. Dig anchor trench at top of slope – recommended depth 300 – 500mm.
At foot of slope, dig anchor trench or secure laid mat with stone.
3. Seed as required.

Installation of Alpha Mat (direction: - down the slope)

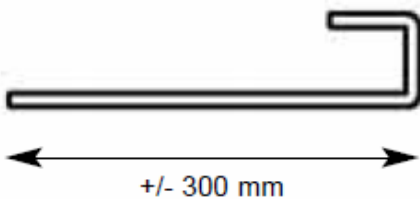
1. Secure end of roll in upper anchor trench (2 pins per m of soil fill).
2. Roll out Alpha Mat from top to bottom and cut to length.
3. Lay next panel with an overlap of 50 – 100mm; pin overlap at 1m intervals.
4. Secure panels at base with pins or gravel.
5. Fill with topsoil as required.

Alpha Mat provides immediate protection whichever solution you choose

1. **No seeding, no topsoil filling** – natural vegetation. Alpha Mat reduces wind and water run-off velocities; green surface provides natural look.
2. **Seeding, no topsoil filling**
Alpha Mat prevents erosion until vegetation comes through and provide grip.
3. **Seeding and topsoil filling**
Alpha Mat holds topsoil particles in place and offers foothold for vegetation during growth.

Anchor Pin

∅ 10 mm



ALPHA PINNACLE SDN. BHD. (1108444-U)

A-01-01, First Floor, Garden Shoppe @ One City, Jalan USJ 25/1F,
47650 Subang Jaya, Selangor, Malaysia
Telephone: (603) 5115 0330 Fax: (603) 5115 0333
Email: contact@alphapinnacle.com
www.alphapinnacle.com

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