

# 3D-Mat®

An innovative and unique  
Erosion Control Mat



steep slopes

## Soil erosion - an increasing challenge

The pressures on our natural world are changing and increasing - global warming is a fact of life, industrial development is accelerating and we are all experiencing greater extremes of weather. So soil erosion is also an increasing problem for engineers.

## 3D-Mat Erosion Control Mat provides the solution!

The unique 3D-Mat®, available in 10 and 20 mm thicknesses, is a three dimensional, structured, olive green erosion control mat manufactured from Polypropylene monofilaments. It is easy to install 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 3D-Mat® has been installed, it provides micro stability at the slope surface and therefore instant protection against soil erosion due to wind, rain and flash flooding. 3D-Mat® 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. Consequently 3D-Mat® helps nature to develop its own strong green solution for long term erosion protection.

## Applications:

3D-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 courses** and **residential lawn areas**.



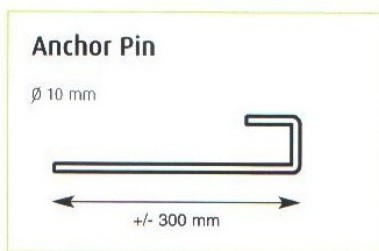
### 3D-Mat Performance and Dimensions

Raw material		Polypropylene	
Colour		olive green	
Mass per unit area - EN ISO 9864		200 g/m <sup>2</sup>	
Working temperature range		-13°C to 100°C	
Strength (MD) - EN ISO 10319		0.7 kN/m	0.5 kN/m
Strength (CMD) - EN ISO 10319		0.4 kN/m	0.3 kN/m
Nominal thickness - EN ISO 9863-1		10 mm	20 mm
Roll size		1.4m x 150 m	1.4 m x 120 m
Roll diameter		1.20 m	

The information set forth in this leaflet reflects the best knowledge at the time of publication. The leaflet is subject to change pursuant to new developments and findings. The same reservation applies to the properties of the products described. No liability is undertaken for results obtained by usage of the products and information.  
3D-Mat 4/2007  
® registered trademark



## Quick and Easy Installation - Instant Performance



### Preparatory Work

- A Level the slope
- B Dig anchor trench at top of slope - recommended depth 30-50 cm  
At foot of slope, dig anchor trench or secure laid mat with stone
- C Seed as required

### Installation of 3D-Mat® (direction: down the slope)

- A Secure end of roll in upper anchor trench (2 pins per m or soil fill)
- B Roll out 3D-Mat® (either way up), from top to bottom and cut to length
- C Lay next panel with an overlap of 5-10 cm; pin overlap at 1 m intervals
- D Secure panels at base with pins or gravel
- E Fill with topsoil as required

**3D-Mat provides immediate protection** whichever solution you choose

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