

**GOLD MEDAL
Inovasi
Negara
2008**

Geoprotect[©]

An interlocking Modular Block for Soil Erosion Control

*The international standard patented local innovation resulted from
professional R&D*



Specialties

- *Simple in design*
- *Fast and easy to install*
- *Cost effective*
- *Even at location with minimal excess.*
- *Environmental friendly*
- *Strong and Durable*
- *Dynamic architecture*

the **Product of Choice** *for*

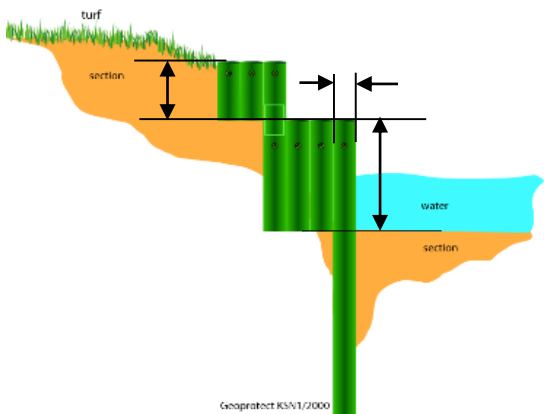
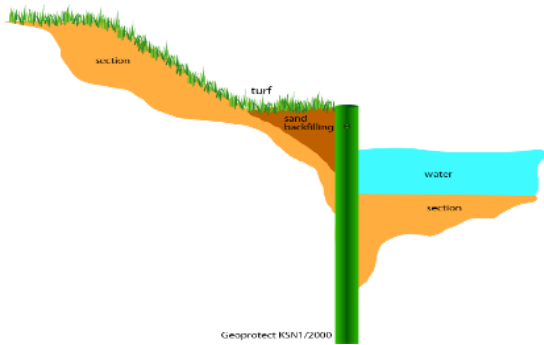
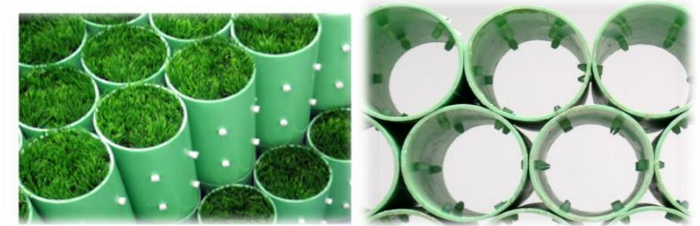
Soil erosion control



GRN INDUSTRIES SDN BHD

Geoprotect is basically a formation block of hollow tubes made by specially formulated plastic material. The hollow tubes are interlocked together to form a modular block and can be expended to cover a wide area. The modular block is inserted at the toe of the slope covering the slip circle and exposed above the invert level at least one third of total length. The tie back mechanism will have enhanced the stability of the structure by pulling back evenly the main front module. The modules are fill with granular materials or other available materials at site.

Geoprotect can be used to prevent erosion and siltation at river bank or slopes. It can also be used for river realignment, pond or irrigation channel. The system is easy and fast to install and don't require heavy machineries, therefore it can be applied at site with very limited or no excess.



Engineering Specification

The basic tube - Specification

Material	UPVC MS628:1982
Diameter	110 -120 mm
Wall thickness	4mm
Basic length	1000 mm
Connecting holes	6 – 8mm Ø. holes at each ends.
Empty weight	1.95 kg



Gold Medal with Jury Appreciation – Geneva International Exhibition of Product and invention Geneva 2004

- **Silver Award**
Invention/Innovation Competition: Expo S & T 2003
- **Champion**
Public Service Quality Award, Penang 2002
- **Certificate of Appreciation**
DID's Innovation