



# ALPHA BDM

## BIODEGRADABLE MAT

Alpha BDM is a biodegradable mat made of 100% natural fibres assuring mats are fully biodegradable and environmental friendly. It also consisting of a 3-dimensional natural fibre matrix in between 2 layers of UV stabilized polypropylene nettings and best use for erosion and sediment control, vegetation and landscaping. In addition to the erosion control function, Alpha BDM helps to retain moisture and provides an eco-friendly environment to accelerated vegetative growth. Alpha BDM also allows the soil to breathe and allow both air and water to pass through its construction, encouraging the growth of the desired plants, reducing evaporation and minimising water needs.

### COCONUT COIR (CC)

Alpha BDM (CC) is made from 100% coconut coir consisting of a 3-dimensional natural fibre matrix in between 2 layers of UV stabilized polypropylene nettings. It is ideal in protecting slope surfaces from erosion caused by natural elements such as water and wind. It is most suitable for river and elementary shoreline protection, rehabilitation of streams, retention pond embankments, reservoirs and drainage channels. Alpha BDM (CC) also have a relatively longer lifespan from any other natural mattings.



### PALM FIBER (PF)

Alpha BDM (PF) is made from 100% palm oil fibre consisting of a 3-dimensional natural fibre matrix in between 2 layers of UV stabilized polypropylene nettings. Alpha BDM (PF) is particularly suitable for dry slopes with ability to hold seeds intact and prevent soil erosion. The double nets are UV stabilized for longevity and assist in reinforcing plant roots network against erosion and detachment due to natural elements such as rain and wind.



### APPLICATIONS

Alpha BDM also can be used on various type of area condition, such as:

- ◆ On bare cut slopes.
- ◆ Roads and railways embankment.
- ◆ Heavy rainfall areas.
- ◆ Shoreline protection.
- ◆ Highly erodible soils.
- ◆ Quarried and landfills.
- ◆ Golf courses and sports ground and public parks.
- ◆ Facing for AceGrid® geogrid wrapped around wall.



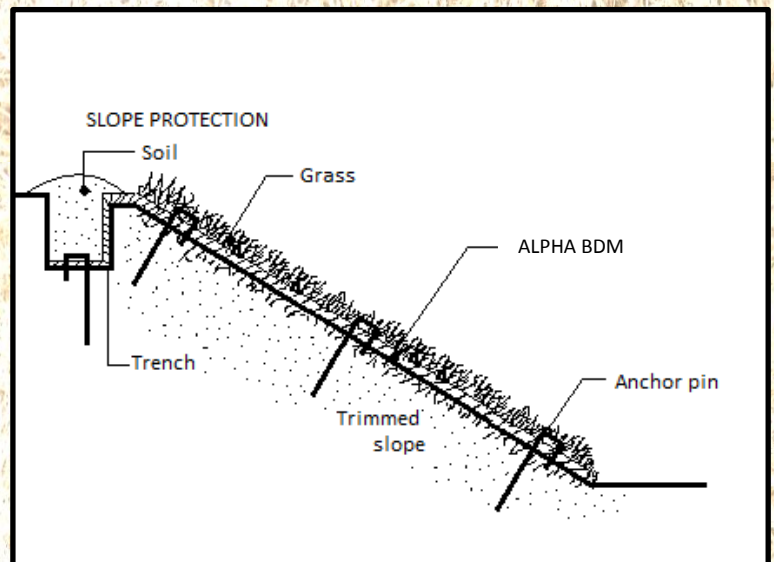
## SPECIFICATION

PROPERTIES	Alpha BDM (CC)	Alpha BDM (PF)
Raw Material	Coconut Fibre	Palm Fibre
Thickness	8 – 10mm	6 - 7mm
Mass per unit area	500 g/m <sup>2</sup>	340 – 380 g/m <sup>2</sup>
Roll size: Width	2 meter	2.44 meter
Roll size: Length	20 meter	21 meter
Durability	About 12 – 15 months	8 months

## INSTALLATION PROCEDURE

Alpha BDM is easy to install and is fully biodegradable. Apart from annual maintenance to sustain the vegetation, no further work is needed after the installation.

1. Prepare the area for installation. Remove any protruded rocks, root stumps etc. and treat the soil to promote maximum plant growth.
2. Lay the Alpha BDM rolls in the direction of surface water flow. Adjoining rolls should be overlapped by a minimum of 100mm.
3. A trench with a minimum depth of 300mm should be dug at the top of the slope. Anchor the Alpha BDM down into the trench at a minimum of 1m spacing. Backfill the trench and compact.
4. Depends on slope steepness, Alpha BDM should be anchor at 1 anchor per 1m sq. and up to 4 anchor per 1m sq. on steeper slope.
5. Vegetate the area using specified method.
6. Maintain watering the vegetation to promote the growth of the vegetation.



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