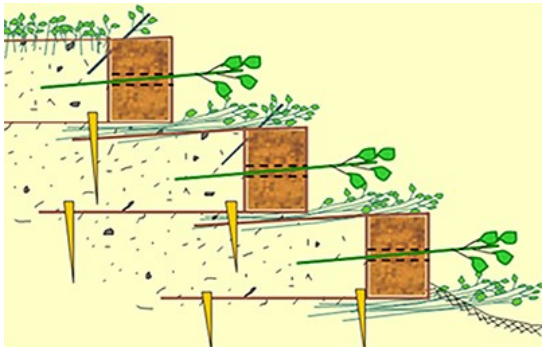
BioD-Block™ 16-400

Fabric attached coir block system

US Patent #: 6893193 and 9,315,962 B2
Sri Lanka Patent #: 12692 and 18277



Description

The BioD-Block™ 16-400 consists of a 10-ft long, 16-in tall and 9-thick densely packed mattress coir block with BioD-Mat 70 woven coir fabric attached. Three sides of the coir fiber block is wrapped with woven coir fabric and free ends of woven coir fabric is extended from top and bottom of the coir fiber block. The BioD-Block™ system has invisible holes in the middle of the coir block at 12-in spacing at the face through the entire fiber block. Each hole is covered with a coir plug. When these coir plugs are removed, the open hole can be used to plant live plant cuttings. When these plants grow in the soil mass they provide essential stability to the soil mass through their root mass. Also, these plants act as long-term anchors for the fiber blocks. Construction of vegetated soil lifts with coir block system is much easier and more efficient than making soil lifts with fabrics. More importantly, soil lifts constructed with BioD-Block provide long-term protection for the soil layers from its coir fiber block. History has shown failure in fabric wrap soil lifts before mature vegetation establish in the soil mass.

Specification

Property	**BioD-Block™ 16-400**
Unit weight	4.8 lbs./ft. (7.3 kg/m)
Block size Height Thickness Length	 16 in (40 cm) 9 in (23 cm) 10 ft (305 cm)
Fabric length Top Bottom	 48 in (122 cm) 75 in (190 cm)
Tensile strength of fabric MD CD	 1740 lbs./ft. (25.4 kN/m) 1176 lbs./ft. (17.2 kN/m)
Fabric length at female end	6 in (15 cm)
Invisible planting holes	Each block has 9 holes placed in 12-in spacing. Each hole is covered with a coir plug.

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