Toyo-Vetiver Grass System

Bio–Engineering Solution to Erosion Control

Applications

1. Steep slope stabilization
2. Riverbank stabilization
3. Engineering structural protection
4. Landscape improvement on landfill
5. Rehabilitation on mining site
6. Prevent flooding along riverbank
7. Waste water purification
8. Landscape improvement on shotcrete slope











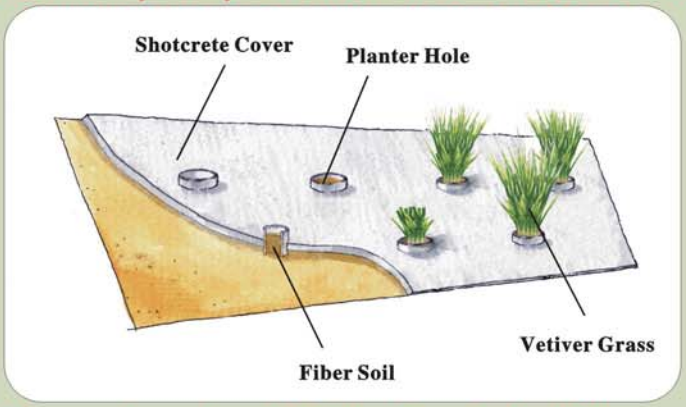
Advantages

1. Natural and environmental friendly
2. Cost effective
3. Easy and fast installation
4. Can be applied on steep slopes
5. Low maintenance
6. High vegetation coverage
7. Seasonal greening
8. Not invasive



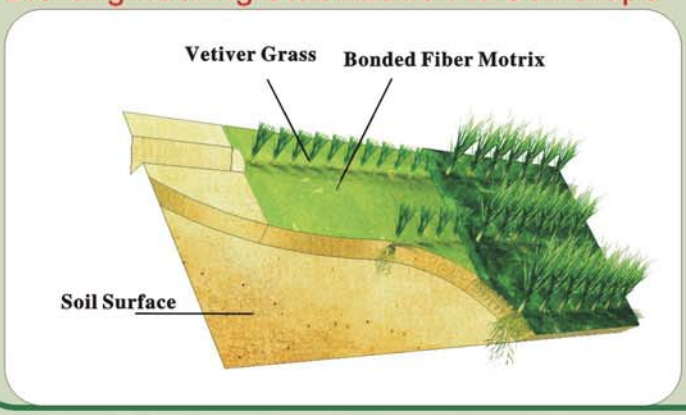
Working Procedures

Landscape Improvement on Shotcrete Cover



1. Drill the planter holes with approx. diameter 200mm and minimum 200mm depth at 1,000mm vertical and 800mm horizontal stagger pattern.
2. Install perforated PVC tube and sealed with approved material.
3. Fill the planter holes with fiber soil and fertilizer.
4. Plant the Vetiver grass in the planter hole.

Bio-engineering Stabilization to Soil Slope



1. Trench excavation of horizontal planting strip to the depth of 300mm at 1 meter vertical interval.
2. Pit planting of clump of vetiver grass at approx. 300mm c/c with back fill of soil mix.
3. Application of Bond Fiber Matrix to the soil surface of slope.

Characteristics

1. Strong dense vertical root system to reinforce the in-situ soil
2. Sterile seed without invasive problem to local ecology
3. Long life span for ten to hundred years
4. Survive even
   - Partly covered with water for 90 days
   - Fully covered with water for 60 days
5. Tolerance to adverse soil conditions
   - High acidity or alkalinity
   - Drought resistance
   - High salinity



Nursery in Hong Kong

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