

## **ProtectaWeb Slope Installation Procedure.**

### **Preparation**

- 1) Start site preparation for the ProtectaWeb slope protection system by removing debris and vegetative cover from the embankment area.
- 2) Complete other earthworks, excavation and/or fills.
- 3) Remove unacceptable in-situ soils that are for the ProtectaWeb slope protection system and replace with suitable materials.
- 4) Excavate the specified toe-in trenches where specified along the crest and at the bottom of the embankment area being protected.

### **Embankment Protection and Drainage**

- 1) Install the Multitrack 1000 over the slope and secure in position according to the manufacturer's recommendations. When excessive ground water is present, a non-woven geotextile is recommended.
- 2) Install the appropriate geocomposite drainage system (site specific). Ensure that the system is functional and connected to the suitable drainage outlet.

### **Installation of ProtectaWeb Slope Protection Sections**

- 1) Drive specified straight Pins part way into the ground along the toe-in trench or along the top of the area to be protected at the following longitudinal centres.
- 2) Expand the ProtectaWeb section and place each expanded end cell of the section over its corresponding pre-installed stake.
- 3) Drive the stake Pins through the cells ensuring the hook loops over the cell wall.
- 4) Expand the ProtectaWeb section down the slope to the fully expanded length of the section.
- 5) Hold the fully expanded sections open using one of the following options. Other options are also acceptable.
  - a) Straight stakes / pins (permanent or temporary)
  - b) Infill several of the peripheral cells
- 6) Check each ProtectaWeb section to ensure that it is fully expanded. Full expansion of sections will result in a better fitting and looking slope protection.
- 7) Correctly align and interleaf edges of adjoining ProtectaWeb sections and ensure that the upper surface of adjoining sections are flush.
- 8) Fasten ProtectaWeb sections together with staples or as specified in contract documents.
- 9) Drive additional straight stakes or Pins at the specified spacing within the cells of the expanded ProtectaWeb section.

10) If the slope length is longer than one expanded ProtectaWeb section, drive another row of stakes at the bottom end of the expanded section per item 1 above and continue with the new ProtectaWeb section per item 2.



#### **Placement of infill in ProtectaWeb sections**

- 1) After ProtectaWeb sections have been secured to the slope, begin infilling with the specified materials.
- 2) Place infill in expanded cells with suitable material handling equipment.
- 3) Limit drop height of infill material to 1 m maximum.
- 4) Avoid displacement of ProtectaWeb sections by infilling from the embankment crest to the toe.
- 5) Overfill ProtectaWeb sections and compact infill material as follows:
  - a) Screened top soil, overfill between 25 mm and 50 mm and lightly tamp to leave soil flush with top edge of cell walls. Apply specified surface treatment.
  - b) Loose granular materials, overfill 25 mm and compact with a plate tamper or machine bucket. Remove loose surface material so infill is flush with top edges of cell walls.
  - c) Concrete, fill to top edges of the cell walls and compact manually or with vibratory equipment. Apply specified finish to concrete infill.