

## **Recs Viresco pre-sowed geocomposite material**

### **SPECIFICATION ITEM**

#### **Geomat based on a double twist wire mesh and pre-sowed cellulose fibre biotextile.**

Supply and laying of pre-sowed geocomposite material for soil escarpments and embankments, with stabilization and erosion control function, against surface wash-out and for surface regrassing.

The geocomposite material will be composed of the following items, assembled and made integral during production by binding with 3 mm diameter staples coated with Zn-Al alloy in the number of three points per square meter (separate products are not allowed):

- Double twist wire mesh, EC, BBA (120 years performance) and EPD (environmental certification) certified with 8x10 type hexagonal mesh with 2.7 mm diameter wire in Zn-Al eutectic alloy. The DOP (Declaration of Performance) will state a tensile strength of the mesh of no less than 50 kN/m (UNI EN 10223) and a puncture resistance of no less than 65 kN/m (UNI 11437). The environmental certification (EPD) of the geomat must state an emission coefficient of kg/CO2 per kg of product manufactured lower than 2.0 (GWP100) (ISO 14025 and EN 15804). The wire mesh must be certified by a third party such as BBA for the determination of long-term performance and have a total reduction factor (obtained starting from the single partial coefficients such as mechanical damage, environmental damage, and production data) lower than 1.15.
- Biotextile in 100% biodegradable cellulose fibres of natural green colour, with weight no more than 250gr/sqm and thickness no more than 4 mm, pre-sowed with high quality herbaceous seeds, according to the project indications and/or the Works Management, including granulated fertilizers for new settlements and soil conditioners, without using glues, nets, synthetic fibres or films. The seeds, fertilizers, any soil conditioners and hydro-retentors must be inserted within the biotextile weft so that they cannot be dispersed during the manufacturing, packaging, transport and installation phases.

The geomat will be laid with the biotextile side in contact with the soil. The adjoining sheets will be connected every 20 cm with wire having the same characteristics as the wire mesh. The geocomposite material will be fastened using 4 mm diam., 'curly' shaped Zn-Al alloy coated steel pins or 6 mm diam., 40x7x40 cm U-shaped ribbed pegs, at least 1 or 2 per sqm depending on the characteristics of the site.

The price item includes the laying and anchoring of the geomat. It does not include any profiling and/or cleaning of the installation site or watering until sprouting, to be compensated with the specific prices list.