

## Three-dimensional pre-sown geo-mat **VIRMAT**

Gripping, three-dimensional, pre-sown geo-mat composed by a multilayer structure of polypropylene (PP) geogrids with a high index of voids, extruded and subsequently bioriented, overlapped and sewn together, assembled in the lower part with the biotextile of biodegradable cellulose fibers VIRESCO, pre-sown with seeds of herbaceous species and granular fertilizers for new sowing.

### Applications:

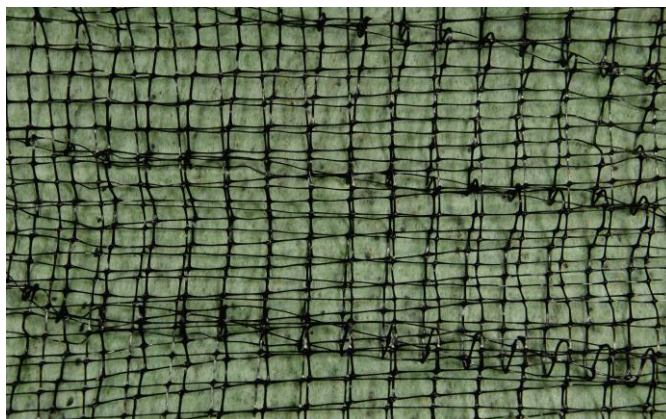
Road and rail ditches, slopes protection, irrigation and drainage canals, banks and watercourses banks, lakes, rivers, canals, landfills and quarries covers.

**VIRMAT** is CE marked and delivered to the building site in rolls, together with the manufacturer's identification labels, production lot and type of material.

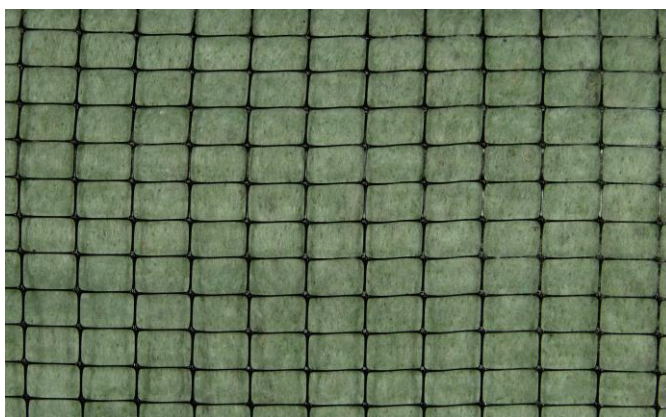
### TECHNICAL DATA

<b>COMPOSITION</b>	PP (Polypropylene) - Cellulose fibres, seeds	
<b>STRUCTURE</b>	Three-dimensional geo-mat + Pre-seeded biotextile	
<b>STANDARD COLOR</b>	black (carbon black 1% max - ASTM D4218) + green	
<b>TYPE OF MESH</b>	Rectangular openings	
<b>LONGITUDINAL MESH OPENING</b>	12 mm	
<b>TRANSVERSAL MESH OPENING</b>	16 mm	
<b>THICKNESS</b>	30 mm	EN ISO 9863-1
<b>WEIGHT</b>	500 g/m <sup>2</sup>	EN ISO 9864
<b>POROSITY</b>	95 %	
<b>ROLL WIDTH</b>	2,05 m	EN ISO 10320
<b>ROLL LENGHT</b>	45 m	EN ISO 10320
<b>ROLL DIAMETER</b>	80 cm	
<b>ROLL VOLUME</b>	1,05 m <sup>3</sup>	
<b>ROLL GROSS WEIGHT</b>	50 kg	
<b>LONGITUDINAL TENSILE STRENGTH</b>	10.9 kN/m	EN ISO 10319
<b>TRANSVERSAL TENSILE STRENGTH</b>	15.6 kN/m	EN ISO 10319
<b>LONGITUDINAL ELONGATION DUE TO YIELD</b>	20.0 %	EN ISO 10319
<b>TRANSVERSAL ELONGATION DUE TO YIELD</b>	15.0 %	EN ISO 10319

All the dimensional values may be subject to ± 4%-6% variations



Upper side



Bottom side

**VIRMAT**

### Standards-compliant

EN 13253:2016; EN 13254:2016; EN 13255:2016, EN 13257:2016 EN 13265:2016



### STORAGE ARRANGEMENTS

**VIRMAT**, supplied in rolls, must be moved paying attention not to damage its structure. It must be stocked in a dry place, protected from sunlight exposure, away from flammable materials and heat sources. Once installed, it is advisable to cover it with filling soil material.

**VIRMAT**, kept dry in the packaging nylon, lasts approx. two years.

### APPLICATION METHODS

Adjust the laying surface by removing any roots, stones or debris and then level the ground;

lay **VIRMAT** within a range temperature permanently higher than 5° and lower than 30°;

place **VIRMAT** in a trench 60 cm beyond the ridge of 30 cm of width and as many of depth, secure it with "U" shaped stakes of approx. 30 cm of length, cover and compact the trench; for the trenches at the base, in the case of canals, it is possible to use stones or concrete to anchor;

unroll and stretch out **VIRMAT** over the entire involved area and secure it approx. every 1-2 m with the U-shaped staples in order to ensure a good adherence between the ground and the geomat and guarantee that the presown biotextile is permanently in contact with the ground;

the laying should preferably be done from top to bottom;

in case of horizontal laying, the overlap between adjacent coils along the slope must be equal to about 5 cm and can be made "tile", the upper coil superimposed on the lower one;

in case of very inclined surfaces, anchor the geomats using the "U" stakes arranged in quincunx \* at intervals of approx. 1 m;

cover the geomat manually or with mechanical means (paying attention not to damage it) with fine and dry vegetal soil and then carry out a light topsoil refill over it;

Irrigate for the first 25-30 days until the turf is completely settled;



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