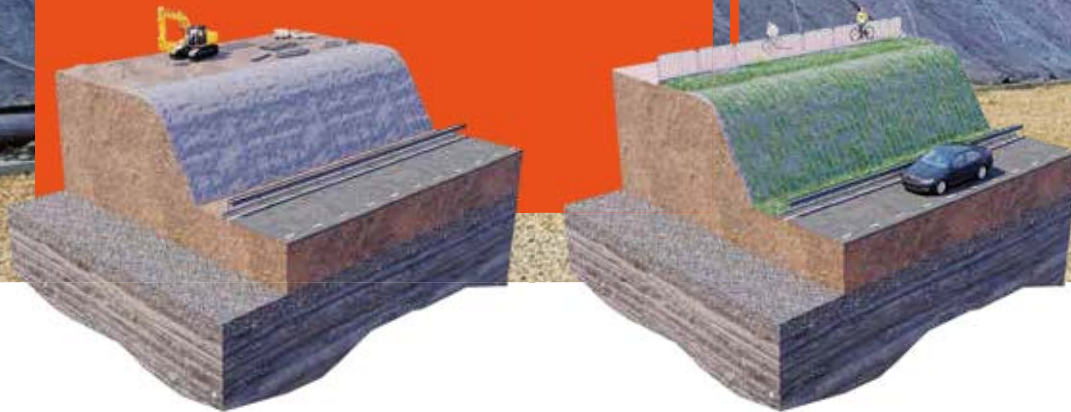
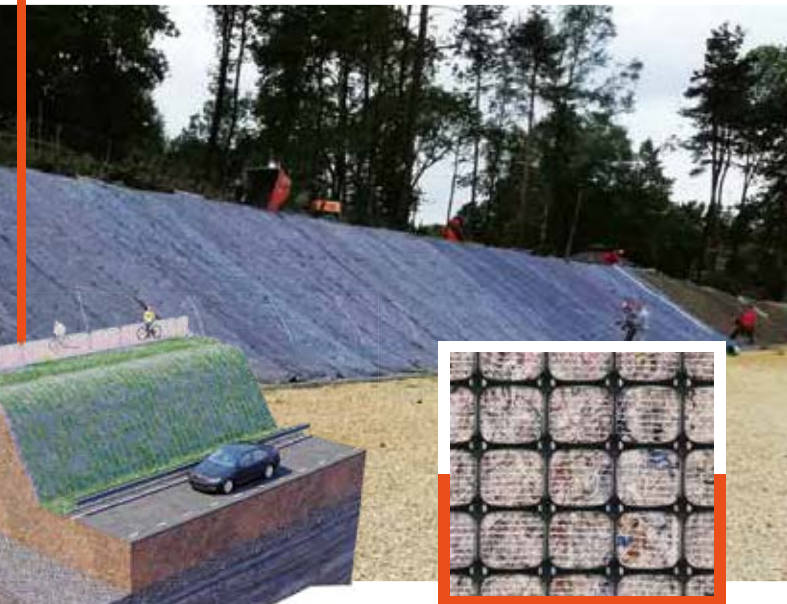


POLGRID BIO Biogeocomposite

Combination of a geogrid with stiff nodes and a biotextile with grass seeds.



PolGrid Bio is a practical and convenient method of turfing, greening, but also for securing slopes near roads and highways, railway embankments, flood embankments and industrial areas. It allows you to quickly cover and protect the soil surface of the slope, protecting it against erosion and near-surface landslides.

Product advantages

- Safe for the environment and user friendly solution
- Protection against water and wind erosion and near-surface landslide
- Allows for even growth which is particularly important on sloping areas
- Prevents washing away of the seeds by rainwater
- Efficient protection against moles and plucking the seeds by animals
- Possibility of long-term storage

PolGrid Bio is a highly efficient solution for soil strengthening and reinforcement. Depending on the project requirements, the appropriate type of the geogrid reinforcing the biotextile is selected.

Technical parameters of the geogrid

Parameter	Unit	15/15	20/20	25/25
Material Polypropylene (PP)				
Unit weighr	g/m ²	180	200	250
Minimum carbon black	%	2	2	2
Peak tensile strength	kN/m	15/15	20/20	25/25
Tensile strength at 2% strain MD/CMD	kN/m	7/7	8/8	9/9
Tensile strength at 5% strain MD/CMD	kN/m	9/9	15/15	18/18
Elongation at Max load along/across band width	%	11/10	11/10	11/10
Junction efficiency	%	100	100	100
Aperature size - MD	mm	39	39	39
Aperature size - CMD	mm	39	39	39
Roll length	m	50	50	50
Roll width	m	2	2	2

Biotextiles are geotextiles made of cotton and cotton-like waste with carefully selected grass seeds inside the non-woven fabric.

Technical parametres of the biotextile

Properties	Test method	Unit of measure	Value	Tolerance
Unit weight of the fabric's base	PN-ISO 3801	g/m ²	220	-
Unit weight of the grass seeds	AM F/5.4.1/01	g/m ²	30	-
Relative water absorbtion	PN-72/P-04734	%	498.83	-
Absolute water absorption	PN-72/P-04734	g/m ²	1.736	-
Decomposition	Not less than 6 months			

Intended use

- Roads and highways - for securing inclined areas and greening all adjacent areas.
- Slopes - to protect against erosion, landslides, leaching and blowing.
- Railway embankments - to protect against erosion, landslides, leaching and blowing.
- Flood embankments - to protect against landslides, leaching and blowing.
- Dunes - to protect against erosion, landslides, leaching and blowing.
- Sports grounds - for creating boards and covering of sports grounds.
- Recreational parks - for creating all green areas to improve the creation process.

