Section Bandware

Robulon PE 1000, the ultimate high strength 3D solution for slope erosion prevention



TenCate Geolon[®] Robulon PE 1000 is a high strength 3 dimensional loop mat to support soil on steep slopes, preventing erosion. Robulon PE 1000 has the perfect balance between soil particle retention to prevent wash out of soil in the early installation stage, and at the same time being open enough to allow roots of any kind of vegetation to grow through.

The structure of the base layer is fully optimized for penetration of water, and there is no risk that very fine particles build up a silt layer closing the mat reducing its functionality.

Proven performance

TenCate Geolon[®] Robulon PE 1000 has a proven performance in any kind of climate, from the extremes of Russia to heat of Africa, keeping soils in place. Projects have been in place for over 15 years.

High tensile strength, a stable structure, UV stability are only a couple of features which ensure durable solutions in erosion control.

To the contrary of many other erosion control products which are always a composite of separate materials with a vulnerable method of connection, TenCate Geolon[®] Robulon PE 1000 is one single product where base layer and the 3D loops can never be separated. Especially on very long slopes, this feature creates 100% safety against a major slide as no defects are possible inside the product itself.

Features and Benefits

- ✓ One product → easy to install, no failures possible
- ✓ High strength → suitable for application on long slopes
- \checkmark Stable structure \rightarrow ensures good fixation
- \checkmark Soil particle retention \rightarrow no wash out
- ✓ Open structure → Highly permeable, no risk of silting, ability to establish strong rootzone
- \checkmark Wide with of 5 m \rightarrow effiency in installation, less joints overlaps
- ✓ Highly UV stable → in case vegetation is not established or harmed and the product is exposed to UV







 \checkmark 100% recyclable PP and PE \rightarrow not hazardous to the environment



Protective Fabrics Space Composites Aerospace Composites Advanced Armour Geosynthetics Grass







Robulon PE Technical Data

TenCate Geolon[®] Robulon PE 1000 is a high strength geocomposite for slope erosion control purposes. The product is made of a highly durable combination of PP and PE, and has a 3 dimensional structure for optimum soil retention purposes. The woven base layer, which has a very stable pattern, has openings large enough to allow roots to establish. At the same time the voids are not too large, preventing wash out of fine soil particles in the early stages of installation, before vegetation has reached its optimum situation.



TenCate Geolon[®] Robulon PE

Characteristics [Standard]		Unit	PE 1000			
Type of product			Geocomposite made of 100% recyclable combination of PP and PE, consisting of a high strength woven base layer featuring inseparable loops for soil, gravel or concrete retention.			
Product Properties						
Mass per unit area [EN ISO 9864]		g/m²	510			
Thickness under 2kPa [EN ISO 9863-1]		mm	10			
UV resistance (retained tensile strength) [EN ISO 12224]		%	> 80			
Base Layer Properties						
Tensile strength	MD*	kN/m	40			
[EN ISO 10319]	CD*	kN/m	35			
Elongation at maximum strength	MD*	%	30			
[EN ISO 10319]	CD*	%	20			
CBR Puncture Resistance [EN ISO 12236]		kN	3.5			
Dynamic Perforation [EN ISO 13433]		mm	12			
Forms of supply						
Width		m	5			
Length		m	50			
Roll diameter		m	0.8			
Roll weigth (± 10%)		kg	140			

* MD = Machine Direction CD = Cross Direction

The values given are average values obtained in our laboratories and in testing institutes. The right is reserved to make changes without notice at any time.

TENCATE GEOSYNTHETICS AUSTRIA Ges.m.b.H. Schachermayerstrasse, 18 · A · 4021 Linz · Austria

Tél. +43 732 6983 0, Fax +43 732 6983 5353 service.at@tencate.com, www.tencategeosynthetics.com

BeNeLux Central Eastern Europe Czech Republic France / Africa Germany Italy	Tel. + 31 546 544 811 Tel. + 43 732 6983 0 Tel. + 420 2 2425 1843 Tel. + 49 6074 3751 50 Tel. + 39 0362 34 58 11		Poland Romania Russia / CIS Scandinavia / Baltics Spain / Portugal UK / Ireland	Tel. +48 12 268 8375 Tel. +40 21 322 06 08 Tel. +43 732 6983 0 Tel. +31 546 544 811 Tel. +34 607 499 962 Tel. +44 1952 588 066	service.pl@tencate.com service.ro@tencate.com geonordic@tencate.com service.es@tencate.com service.es@tencate.com	DEKRA	Quality - Environment ISO 9001 ISO 14001 www.dekrosed.com	33 060 06.2014 V1 31 416 DJ - ASQ	
Near Middle East	Tel. +971 4810 3295	service.nme@tencate.com						503 961	

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