Erosaweb GWX

Data Sheet

EROSAWEB GWX is a geocell that confines and stabilises the surface of slopes by means of a honeycomb of interconnected polymer strips that form cells to locate and strengthen the infill material.
The walls of EROSAWEB GWX have perforations to optimise the balance between mechanical and hydraulic performance.
EROSAWEB GWX can be laid over stable steep slopes where the cell walls provide confinement, increasing the strength of the fill material and acting as mini-weirs to reduce run off velocity and soil loss. EROSAMAT may be used over the surface of EROSAWEB GWX to aid the establishment of grass cover. On a slope EROSAWEB is normally secured to the underlying material by frequent pinning, usually with steel pins. Where this is impossible, for instance when EROSAWEB is installed over a geomembrane, the webs should be secured to a high-strength geogrid, anchored at the top of the slope. Using this inexpensive system with crushed rock or concrete fill, it is possible to construct revetments. Our Technical Department can offer advice and design proposals for the use of the material.
EROSAWEB is folded flat for transport and expanded on site.

Geocell Properties							
Type		100/300	150/300	200/300	300/300		
Depth	(mm)	100	150	200	300	nominal	
Panel weight	(kg)	26	39	52	78	nominal	
Cell Size	(mm)	300				nominal	
Material		HDPE Perforated					
Colour		Black					
Cell aggregate friction	(kPa)	Greater than 6kPa at 10kPa loading, dry conditions with typical aggregate.					ASTM D5321 Procedure B
Standard pin length (8mm J pins)	(mm)	300	400	500	600	nominal	
Strip Tensile strength MD / CMD	(kN/m)	12.0				-10%	EN ISO 10319
Seam peel strength	(kN/m)	12.0				-10%	EN ISO 13426-1
Durability							
Resistance to UV – Strength retained 50MJ/m²	(%)	> 90					EN 12224
Resistance to chemicals – Strength retained 3 ≤ pH ≤ 12	(%)	> 90					EN 14030
Design life	100 years in natural soils with 4 ≤ pH ≤ 9 and soil temperatures ≤ 25°C on the basis of the results of test method B.4.2.2 (112 days) of EN 13252:2016 Annex B.						
Applications							
Topsoil retention on slopes		✓	✓	✓	✓		
Revetment construction			✓	✓	✓		
Product Dimensions							
Product dimensions	4m x 6m when expanded.						
Ancillaries							
ABPIN fixing pins. ABFIX TIES CTD for panel and securing to geogrid supplied in bags of 100. EROSAMAT if required.							

1 The values given are determined from statistical Interpretation of test results obtained in our laboratories and are subject to tolerances. In line with our policy of continuous improvement the right is reserved to make changes without notice at any time.
2 Final determination of the suitability of any information is the sole responsibility of the user. ABG will be pleased to discuss the use of this or any other product but responsibility for selection of a material and its application in any specific project remains with the user.
3 Guidance on interface shear strength, creep, reduction factors and certain other parameters is available. Site specific tests are strongly recommended.

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