

Hy-Tex Geomat 20 Z G50 Geogrid Re-inforced Erosion Control Geomat

Geomat 20 Z 500 G50 is a reinforced soil erosion control matting consisting of a three dimensional structured mat of heat bonded filaments entangled with a multi-filament polymer-coated glass fibre reinforcing grid. This creates a long lasting, environmentally friendly, tough and flexible erosion control mat in combination with natural vegetation.

Geomat 20 Z 500 G50 provides both an effective erosion control surface and a vegetative root reinforcement layer. It is a non-biodegradable mat intended to assist permanent vegetation growth. Its main application is to protect newly laid topsoil in the formation and repair of embankments to rivers, spillways, reservoirs, canals, highways, railways, etc. This product is not suitable for use with soil nails or in rock-fall prevention.

Mat Properties

Type	Three dimensional open matrix
Colour	Black
Design life ⁴	120 years (manufacturer's declaration)
Fire resistance	Good when filled with soil

Reinforcement Properties

Type	Multi-filament polymer coated glass fibre reinforcing grid		
Grid aperture	(mm)	22 x 19	Approx.
Mass/unit area	(g/m ²)	250	EN ISO 9864
Tensile strength MD	(kN/m)	50	-5 kN/m EN ISO 10319
Tensile strength CMD	(kN/m)	50	-5 kN/m EN ISO 10319
Elongation	(%)	3	±5 % EN ISO 10319

Composite Properties

Thickness	(mm)	20	Nominal
Mass/unit area	(g/m ²)	750	EN ISO 9864
Flow velocities	(m/s)	> 4 (unvegetated) to > 7 (fully vegetated)	CIRIA 116

Product Dimensions

Width	(m)	2.5	
Length (see note 7)	(m)	24	Nominal
Weight	(kg)	45	Nominal
Roll diameter	(m)	0.7	Nominal
Overlap allowance	(%)	6	
Wastage allowance	(%)	1	

Ancillaries

Fixing pins (300 mm long as standard) supplied in boxes of 500. Longer "U" pins required for spillways and loose soils.

Notes

- The values given are indicative and correspond to nominal results obtained in our laboratories and testing institutes. In line with our policy of continuous improvement the right is reserved to make changes without notice at any time. The thickness stated is the product thickness as manufactured; the product is compressed when rolled for delivery and the extent of recovery will depend on time.
- Final determination of the suitability of any information is the sole responsibility of the user. Hy-Tex (UK) Ltd 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.
- The standard product is intended to be sufficiently durable in European climates to allow new vegetative growth to develop through the open structure of the mat to provide the long term weathering protection.
- Subject to correct installation and covering within 28 days. For further information please contact Hy-Tex (UK) Ltd.
- Please refer to separate sheets for fixing instructions. A COSHH certificate is available on request.
- Flow velocities are as quoted in CIRIA 116 Figure 9.