

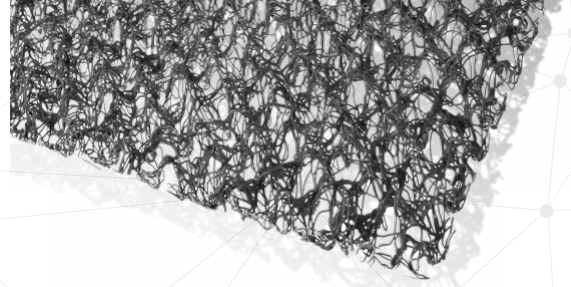
# TECHNICAL DATASHEET

# TECHMAT P3500M

## PRODUCT DESCRIPTION

TECHMAT P3500M is a soil erosion control matting consisting of a flexible lightweight three dimensional structure of entangled and heat bonded black polypropylene filaments reinforced with a poly propylene mesh to create a long lasting environmentally friendly, flexible erosion control mat in combination with natural vegetation.

TECHMAT P3500M provides both an effective erosion control surface and vegetative root reinforcement layer. It is a non-biodegradable mat intended to assist permanent vegetation growth. It's main application is to protect newly laid topsoil in the formation and repair of embankments to rivers, spillways, reservoirs, canals, highways, railways, taxiway edges, etc. A grid reinforced version (TECHMAT P3500/G50) is available for heavier duty applications.



CHARACTERISTICS	UNITS	TECHMAT P3500M	TOLERANCE	TEST METHOD
TYPE		THREE DIMENSIONAL OPEN MATRIX WITH MESH		
COLOUR		BLACK		
THICKNESS	(mm)	20		NOMINAL
MASS/UNIT AREA	(g/m <sup>2</sup> )	550		EN ISO 9864
TENSILE STRENGTH MD/CMD	(kN/m)	4.5/5.0	-0.5	EN ISO 10319
ELONGATION MD/CMD	(%)	25/25	±5%	EN ISO 10319
DESIGN LIFE		120 YEARS (MANUFACTURER'S DECLARATION)		
FREE VOLUME	(%)	>95		
UV RESISTANCE		STABILISED (NOTE 3)		
FIRE RESISTANCE		GOOD WHEN FILLED WITH SOIL		
FLOW VELOCITY	(m/s)	4 (UNVEGETATED) TO 7 (FULLY VEGETATED)		CIRIA 116 AND ALLERMOOR SPILLWAY DATA
<b>PRODUCT DIMENSIONS</b>				
WIDTH	(m)	2.5		
LENGTH	(m)	25		
WEIGHT	(kg)	34		
ROLL DIAMETER	(m)	0.7		
OVERLAP ALLOWANCE	(%)	5		
<b>ANCILLARIES</b>				
FIXING PINS (300mm LONG AS STANDARD) SUPPLIED IN BOXES OF 500. LONGER 400mm "U" PINS REQUIRED FOR SPILLWAYS AND LOOSE SOILS.				

1. TCS Geotechnics is a trading name of Technical Civils Solutions Ltd.
2. TCS Geotechnics Ltd reserves the right to alter product specifications without prior notice.
3. It is the responsibility of all users to satisfy themselves that the above data is current.
4. The above figures are average values obtained from testing to current EN ISO standards.
5. TCS Ltd cannot accept responsibility for the performance of these products as the conditions of use are beyond our control.
6. Installation details are available on request.
7. 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.
8. 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.
9. Flow velocities are as quoted in CIRIA 116 figure 9 and shown in Allermoor Spillway flood monitoring data 2014.

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