

TECHNICAL DATASHEET

TNW3000F NON WOVEN GEOTEXTILE

PRODUCT DESCRIPTION

TNWF Geotextile ensures the uniform thickness of the base course by preventing the ingress of fill material into the fine-grained subgrade. Installation damage is prevented by the outstanding puncture resistance. The high tensile strength of TNWF in longitudinal, transverse direction provides additional stability to the structure.

TNWF - geotextiles offer excellent filtration properties, characterised by high water permeability and optimum soil-retention capability, even under high mechanic and hydraulic stress. This ensures that the drainage gravel keeps its water flow capacity, thus providing quick and efficient drainage of the soil.

The manufacturing method (a continuous process with endless filaments) guarantees the use of high quality raw materials. TNWF is resistant to all chemical and biological media usually occurring in soils and construction materials. It cannot be dissolved by water and therefore is harmless to ground water.



MECHANICAL PROPERTIES	TEST METHOD	UNITS	TNW3000F
TENSILE STRENGTH - MD	BS ISO 10319	kN/m	20
TENSILE STRENGTH - CD	BS ISO 10319	kN/m	22
ELONGATION - MD	BS ISO 10319	%	90
ELONGATION - CD	BS ISO 10319	%	40
STATIC PUNCTURE RESISTANCE	BS ISO 12236	N	3300
CONE DROP RESISTANCE	BS ISO 13443	mm	21
OPENING SIZE (O ₉₀)	BS ISO 12956	µm	95
WATER PERMEABILITY NORMAL TO THE PLANE dh=50mm	BS ISO 11058	l/(m ² .s)	70
WATER PERMEABILITY IN THE PLANE	BS ISO 12958	10 ⁻⁴ l/(m.s)	68
THICKNESS at 2kPa	BS ISO 9863-1	mm	2.7
MASS	BS ISO 9864	g/m ²	300
LENGTH		m	50 100
WIDTH		m	2 4.5

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. MD...Machine direction CD...Cross direction

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