

# TECHNICAL DATASHEET

# DECKDRAIN 400S/NW8

## PRODUCT DESCRIPTION

DECKDRAIN 400S/NW8 is a geocomposite drainage layer comprising a high performance single cusped HDPE (High Density Polyethylene) core with a geotextile filter thermally bonded to one side. The textile filter thermally bonded to one side. The textile filter has a flap that extends beyond the core on one edge. The product is practically impermeable one side. It is used as an engineered drainage layer in structural applications, its major areas of use being behind retaining structures, on roof decks and in subsurface works.



GEOCOMPOSITE PROPERTIES	UNITS				TOLERANCE	TEST METHOD
THICKNESS AT 2kPa	(mm)	4.6			±10%	EN ISO 9863-1
MASS PER UNIT AREA	(g/m <sup>2</sup> )	590			APPROX	EN ISO 9864
TENSILE STRENGTH MD/CD	kN/m	14/14			-10%	EN ISO 10319
ELONGATION AT PEAK MD/CMD	(%)	45/45			NOMINAL	EN ISO 10319
CBR PUNCTURE RESISTANCE	(N)	2150			-20%	EN ISO 12236
<b>PERPENDICULAR WATER INFLOW (DIMPLE SIDE ONLY)</b>						
WATERFLOW AT 50mm HEAD	(l/m.s)	103			±30%	EN ISO 11058
AT 2kPa PERMEABILITY (COEFFICIENT)	(m/s)	2.5X10 <sup>-3</sup>			±30%	EN ISO 11058
BREAKTHROUGH HEAD		0				BS 6906 pt 3
<b>IN-PLANE WATERFLOW MD</b>			<b>HG=1.0</b>		<b>HG=0.1</b>	
AT 20 kPa CONFINING PRESSURE	(l/m.s)	0.95	±0.25	0.25	±0.07	EN ISO 12958
AT 100 kPa CONFINING PRESSURE	(l/m.s)	0.75	±0.20	0.20	±0.05	EN ISO 12958
AT 200 kPa CONFINING PRESSURE	(l/m.s)	0.60	±0.15	0.15	±0.05	EN ISO 12958
<b>WITH SOFT FOAM CONTACT SURFACES TO SIMULATE TEXTILE INTRUSION INTO THE CORE DUE TO SOIL PRESSURE</b>						
RESISTANCE TO WEATHERING	TO BE COVERED IN 14 DAYS					EN 12224
RESISTANCE TO CHEMICALS	EXCELLENT					EN14030
DESIGN LIFE	120 YEARS (MANUFACTURER'S DECLARATION)					
<b>GEOTEXTILE PROPERTIES</b>						
THICKNESS AT 2kPa	(mm)	1.2			±20%	EN ISO 9863-1
TENSILE STRENGTH MD/CMD	(kN/m)	95/95			-13%	EN ISO 10319
PORE SIZE O <sub>90</sub>	(µm)	120			±30%	EN ISO 12956
CBR PUNCTURE RESISTANCE	(N)	1600			-20%	EN ISO 12236
DYNAMIC PERFORMANCE CONE DROP	(mm)	32			+20%	EN ISO 13433
TYPE & MATERIAL	NON-WOVEN NEEDLE PUNCHED AND HEAT TREATED LONG STAPLE FIBRE POLYPROYLENE					
<b>PRODUCT DIMENSIONS</b>						
STANDARD ROLL DIMENSIONS	1.1m x 50m OR 2.2m x 25m. OTHER SIZES ON REQUEST					

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. CMD flow is typically 80% of the value in the MD.
8. The tolerance on roll length is 1.5% and roll width 1.0%.
9. Guidance on interface shear strength, creep and certain other parameters is available. Site specific tests are strongly recommended.

## REGISTERED OFFICE ADDRESS

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