TENAX **DR1**

Composite

The TENAX **DR1** composite is a combination of drainage cuspated net and geotextile.
The combination of geotextile (filtering action) and cuspated net (drainage and protection) offers a complete system of "filter - drainage - protection".

Typical applications

Protection, filtration and drainage for: foundation and containment walls - roof gardens, walkable and suitable for vehicles flat roofs.

PHYSICAL CHIARACTESTICS	TEST METHOD	UNIT	TENAX DR1	notes
GEONET POLYMER			HDPE	
GEOTEXTILE POLYMER			PP	
U.V. STABILIZER			Carbon black	

DIMENSIONAL CHARACTERISTICS	TEST METHOD	UNIT	TENAX DR1	notes
MASS PER UNIT AREA	ISO 9864	g/m²	1400	a
COMPOSITE THICKNESS AT 20 kPa	ISO 9863	mm	12.0	a
RESIDUAL THICKNESS AT 200 kPa	ASTM D1621	%	> 85	a
GEOTEXTILE NON-WOVEN EDGE		mm	100.0	a
ROLL WIDTH		m	1.50	a
ROLL LENGTH		m	20.0	a
ROLL DIAMETER		m	0.54	a
ROLL VOLUME		m³	0.47	a
GROSS ROLL WEIGHT		kg	42.0	a

TECHNICAL CHARACTERISTICS	TEST METHOD	UNIT	TENAX DR1				notes
HYDRAULIC FLOW RATE		i =	1.00	0.03	0.02	0.01	
σv = 10 kPa	ISO 12958	m²/s	6,30 E-03	9,23 E-04	6,47 E-04	4,58 E-04	a,b,c
σv = 20 kPa	ISO 12958	m²/s	6,17 E-03	9,19 E-04	6,40 E-04	4,52 E-04	a,b,c
σv = 50 kPa	ISO 12958	m²/s	6,04 E-03	9,12 E-04	6,35 E-04	4,49 E-04	a,b,c
σv = 100 kPa	ISO 12958	m²/s	5,96 E-03	8,99 E-04	6,30 E-04	4,45 E-04	a,b,c
σv = 200 kPa	ISO 12958	m²/s	5,78 E-03	8,44 E-04	6,00 E-04	4,25 E-04	a,b,c
TENSILE STRENGTH	ISO 10319	kg/m	1600				a,b
ELONGATION AT PEAK	ISO 10319	%	60				a,b

GEOTEXTILE CHARACTERISTICS	TEST METHOD	UNIT	TENAX DR1	notes
MASS PER UNIT AREA	ISO 9864	g/m²	200	a
OPENING SIZE	ISO 12956	mm	0.10	a

NOTES:
a) Typical values
b) Longitudinal direction
c) 2mm HDPE liner boundary condition

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The TENAX Laboratory has been created in 1980 and has been continuously improved with the purpose of assuring unequalled technical development of the products and accurate Quality Control,

The TENAX Laboratory can perform mechanical, hydraulic and durability tests, according to the most important international standards like ISO, CEN, ASTM, DIN, BSI, UNI.