TENAX HD Type: 201 – 202 Geocomposite High Drainage



TENAX HD geocomposite high drainage have an inner core composed of a 3D high profile quadrangular shaped mesh structures made by three sets of overlaid intersecting strands and a combination of one (HD 201) or two (HD 202) nonwoven geotextiles.

The combination of geotextiles (filtering action) and geonet (drainage and protection) offers a complete system of "filter-drainageprotection".

The inner strands, thicker and heavier, provide high compressive resistance and transmissivity. These geonets are used in waste disposal and civil engineering projects, where a high hydraulic flow capacity is required. Moreover they are treated with special additives to resist UV degradation.

Typical applications

Site leveling and mechanical protection of the geomembrane; drainage of the accidental leaks below primary; leachate and rain water collection above primary geomembrane; mechanical protection of the geomembranes when in contact with waste-materials and/or soil; drainage of liquids and gases present in the soil above and/or below the capping geomembrane.

GEONET POLYMER PP	
GEOTEXTILE POLYMER PP	
U.V. STABILIZER carbon black	

DIMENSIONAL CHARACTERISTICS	TEST UNIT HD 201 – 202 METHOD		HD 201 – 202	NOTES
UNIT WEIGHT	ISO 9864	g/m²	> 250	а
THCKNESS at 20 kPa	ISO 9863	mm	4.75	d
ROLL WIDTH		m	4.0	a,e
ROLL LENGTH		m	50.0	a,f

TECHNICAL CHARACTERISTICS	TEST METHOD	UNIT	HD 201	HD 202	NOTES
HYDRAULIC FLOW RATE					
i=1.0 σv = 20 kPa	ISO 12958	m²/s	9.75E-04	9.50E-04	b,c,d
i=1.0 σv = 100 kPa	ISO 12958	m²/s	7.75E-04	7.50E-04	b,c,d
i=1.0 σv = 200 kPa	ISO 12958	m²/s	5.25E-04	5.00E-04	b,c,d
i=1.0 σv = 400 kPa	ISO 12958	m²/s	3.75E-04	3.50E-04	b,c,d
TENSILE STRENGTH	ISO 10319	kN/m	5.50	11.0	b,d
ELONGATION AT PEAK	ISO 10319	%	50	50	a,b

GEOTEXTILE CHARACTERISTICS	TEST METHOD	UNIT	HD 201 – 202	NOTES
OPENING SIZE	ISO 12956	mm	0,08	а

NOTES:

Typical Value a)

Longitudinal Direction 2mm HDPE liner boundary condition b) c)

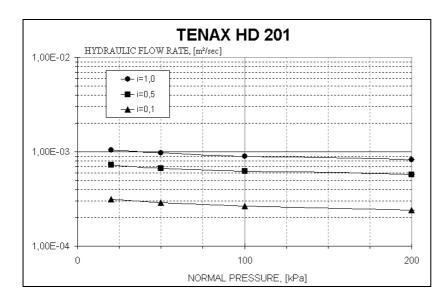
d)

Tollerance: -10% Tollerance: - 2.5% e)

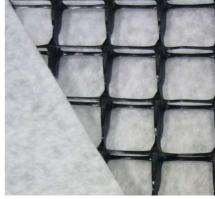
f) Other roll length on demand



Typical Hydraulic Characteristics

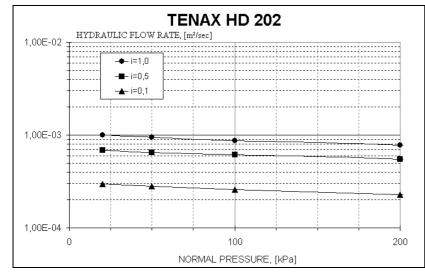






Geonet Core Drainage "Box-net"







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

