

CE MARKING DECLARATION

Certificate n° 0799-CPD-25 • First issue: 2002

TENAX SpA • Via dell'Industria, 3 • 23897 Viganò (Lecco), Italy
 Tel. +39 (039) 9219307 • Fax +39 (039) 9219200
 email: geo.div@tenax.net • www.tenax.net













TENAX CE 450 Geonet

Polymer type: HDPE






Properties	Method	Unit	MD	Tolerances	
Thickness at 20 kPa	EN ISO 9863	mm	4.0	- 0	
Tensile strength	EN ISO 10319	kN/m	4.0	- 0	
Elongation at maximum load	EN ISO 10319	%	30.0	- 3.00	+ 3.00
Water flow capacity in plane					
i=1 $\sigma_v = 20$ kPa	EN ISO 12958	l/m/s	1.18	- 0.12	
i=1 $\sigma_v = 100$ kPa	EN ISO 12958	l/m/s	1.11	- 0.11	
i=1 $\sigma_v = 200$ kPa	EN ISO 12958	l/m/s	1.00	- 0.10	
i=1 $\sigma_v = 500$ kPa	EN ISO 12958	l/m/s	0.38	- 0.04	
Durability	Predicted to be durable for a minimum of 50 years in natural soils with $4 < \text{pH} < 9$ and acid ($\text{pH} < 4$) or alkaline ($\text{pH} > 9$) environments and soil temperature greater than 25°C on the basis of durability assessment report TDCE 006 – 04/03 and related test results. To be covered within 1 month after installation.				

Applications Standard

	EN 13249 Construction of roads and other trafficked areas	⊙
	EN 13250 Construction of railways	⊙
	EN 13251 Earthworks, foundations and retaining structures	⊙
	EN 13252 Drainage system	⊙
	EN 13253 Erosion control works	○
	EN 13254 Construction of reservoirs and dams	⊙
	EN 13255 Construction of canals	⊙
	EN 13256 Construction of tunnels and underground structures	○
	EN 13257 Solid waste disposal	⊙
	EN 13265 Liquid waste containment projects	⊙

⊙ = APPROVED

Functions

	F Filtration	○
	S Separation	⊙
	R Reinforcement	○
	P Protection	○
	D Drainage	⊙



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





TENAX CE 600 Geonet

Polymer type: HDPE






Properties	Method	Unit	MD	Tolerances	
Thickness at 20 kPa	EN ISO 9863	mm	4.5	- 0	
Tensile strength	EN ISO 10319	kN/m	5.0	- 0	
Elongation at maximum load	EN ISO 10319	%	30.0	- 3.00	+ 3.00
Water flow capacity in plane					
i=1 $\sigma_v = 20$ kPa	EN ISO 12958	l/m/s	1.39	- 0.14	
i=1 $\sigma_v = 100$ kPa	EN ISO 12958	l/m/s	1.31	- 0.13	
i=1 $\sigma_v = 200$ kPa	EN ISO 12958	l/m/s	1.24	- 0.12	
i=1 $\sigma_v = 500$ kPa	EN ISO 12958	l/m/s	0.76	- 0.08	
Durability	Predicted to be durable for a minimum of 50 years in natural soils with $4 < \text{pH} < 9$ and acid ($\text{pH} < 4$) or alkaline ($\text{pH} > 9$) environments and soil temperature greater than 25°C on the basis of durability assessment report TDCE 006 – 04/03 and related test results. To be covered within 1 month after installation.				

Applications Standard

	EN 13249 Construction of roads and other trafficked areas	⊙
	EN 13250 Construction of railways	⊙
	EN 13251 Earthworks, foundations and retaining structures	⊙
	EN 13252 Drainage system	⊙
	EN 13253 Erosion control works	○
	EN 13254 Construction of reservoirs and dams	⊙
	EN 13255 Construction of canals	⊙
	EN 13256 Construction of tunnels and underground structures	○
	EN 13257 Solid waste disposal	⊙
	EN 13265 Liquid waste containment projects	⊙

⊙ = APPROVED

Functions

	F Filtration	○
	S Separation	⊙
	R Reinforcement	○
	P Protection	○
	D Drainage	⊙



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







TENAX CE 750 Geonet

Polymer type: HDPE






Properties	Method	Unit	MD	Tolerances	
Thickness at 20 kPa	EN ISO 9863	mm	5.0	- 0	
Tensile strength	EN ISO 10319	kN/m	7.0	- 0	
Elongation at maximum load	EN ISO 10319	%	30.0	- 3.00	+ 3.00
Water flow capacity in plane					
i=1 $\sigma_v = 20$ kPa	EN ISO 12958	l/m/s	1.41	- 0.14	
i=1 $\sigma_v = 100$ kPa	EN ISO 12958	l/m/s	1.33	- 0.13	
i=1 $\sigma_v = 200$ kPa	EN ISO 12958	l/m/s	1.26	- 0.13	
i=1 $\sigma_v = 500$ kPa	EN ISO 12958	l/m/s	1.00	- 0.10	
Durability	Predicted to be durable for a minimum of 50 years in natural soils with $4 < \text{pH} < 9$ and acid ($\text{pH} < 4$) or alkaline ($\text{pH} > 9$) environments and soil temperature greater than 25°C on the basis of durability assessment report TDCE 006 – 04/03 and related test results. To be covered within 1 month after installation.				

Applications Standard

	EN 13249 Construction of roads and other trafficked areas	⊙
	EN 13250 Construction of railways	⊙
	EN 13251 Earthworks, foundations and retaining structures	⊙
	EN 13252 Drainage system	⊙
	EN 13253 Erosion control works	○
	EN 13254 Construction of reservoirs and dams	⊙
	EN 13255 Construction of canals	⊙
	EN 13256 Construction of tunnels and underground structures	○
	EN 13257 Solid waste disposal	⊙
	EN 13265 Liquid waste containment projects	⊙

⊙ = APPROVED

Functions

	F Filtration	○
	S Separation	⊙
	R Reinforcement	○
	P Protection	○
	D Drainage	⊙



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







TENAX CE 900 Geonet

Polymer type: HDPE






Properties	Method	Unit	MD	Tolerances	
Thickness at 20 kPa	EN ISO 9863	mm	5.5	- 0	
Tensile strength	EN ISO 10319	kN/m	9.0	- 0	
Elongation at maximum load	EN ISO 10319	%	30.0	- 3.00	+ 3.00
Water flow capacity in plane					
i=1 $\sigma_v = 20$ kPa	EN ISO 12958	l/m/s	1.44	- 0.14	
i=1 $\sigma_v = 100$ kPa	EN ISO 12958	l/m/s	1.36	- 0.14	
i=1 $\sigma_v = 200$ kPa	EN ISO 12958	l/m/s	1.28	- 0.13	
i=1 $\sigma_v = 500$ kPa	EN ISO 12958	l/m/s	1.09	- 0.11	
Durability	Predicted to be durable for a minimum of 50 years in natural soils with $4 < \text{pH} < 9$ and acid ($\text{pH} < 4$) or alkaline ($\text{pH} > 9$) environments and soil temperature greater than 25°C on the basis of durability assessment report TDCE 006 – 04/03 and related test results. To be covered within 1 month after installation.				

Applications Standard

	EN 13249 Construction of roads and other trafficked areas	⊙
	EN 13250 Construction of railways	⊙
	EN 13251 Earthworks, foundations and retaining structures	⊙
	EN 13252 Drainage system	⊙
	EN 13253 Erosion control works	○
	EN 13254 Construction of reservoirs and dams	⊙
	EN 13255 Construction of canals	⊙
	EN 13256 Construction of tunnels and underground structures	○
	EN 13257 Solid waste disposal	⊙
	EN 13265 Liquid waste containment projects	⊙

⊙ = APPROVED

Functions

	F Filtration	○
	S Separation	⊙
	R Reinforcement	○
	P Protection	○
	D Drainage	⊙



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TENAX CE 1000 Geonet

Polymer type: HDPE






Properties	Method	Unit	MD	Tolerances	
Thickness at 20 kPa	EN ISO 9863	mm	4.0	- 0	
Tensile strength	EN ISO 10319	kN/m	8.5	- 0	
Elongation at maximum load	EN ISO 10319	%	40.0	- 4.0	+ 4.0
Water flow capacity in plane					
i=1 $\sigma_v = 20$ kPa	EN ISO 12958	l/m/s	1.09	- 0.11	
i=1 $\sigma_v = 100$ kPa	EN ISO 12958	l/m/s	1.04	- 0.10	
i=1 $\sigma_v = 200$ kPa	EN ISO 12958	l/m/s	0.98	- 0.01	
i=1 $\sigma_v = 500$ kPa	EN ISO 12958	l/m/s	0.41	- 0.04	
Durability	Predicted to be durable for a minimum of 50 years in natural soils with $4 < \text{pH} < 9$ and acid ($\text{pH} < 4$) or alkaline ($\text{pH} > 9$) environments and soil temperature greater than 25°C on the basis of durability assessment report TDCE 006 – 04/03 and related test results. To be covered within 1 month after installation.				

Applications Standard

	EN 13249 Construction of roads and other trafficked areas	⊙
	EN 13250 Construction of railways	⊙
	EN 13251 Earthworks, foundations and retaining structures	⊙
	EN 13252 Drainage system	⊙
	EN 13253 Erosion control works	○
	EN 13254 Construction of reservoirs and dams	⊙
	EN 13255 Construction of canals	⊙
	EN 13256 Construction of tunnels and underground structures	○
	EN 13257 Solid waste disposal	⊙
	EN 13265 Liquid waste containment projects	⊙

⊙ = APPROVED

Functions

	F Filtration	○
	S Separation	⊙
	R Reinforcement	○
	P Protection	○
	D Drainage	⊙

