

NorGeoSpec Product Certificate

Quality Product Certification

This product has been found to be fit for use in accordance with the NorGeoSpec System for the function as stated below.

Certificate no.:	NGS-50512
Manufacturer:	Tessilbrenta S.p.A.
Product:	HIPERTEX® TB1
Product Type:	GTX-N
Raw material:	PP
Function:	☒ Separation and Filtration in roads and other trafficked areas ☐ Filtration in drainage systems

This certificate was issued on 28.04.2026 and will remain valid as long as the product fulfils the NorGeoSpec requirements, the product and the manufacturing conditions in the plant are not modified significantly. The validity of the certificate shall be checked on www.norgeospec.org or by using the QR code shown. Only certificates listed on www.norgeospec.org are valid.

The hash value of this certificate is:
304beb685d3482910333faeb5ddb2523a43f425d490347ef39d1b7bc6dd1bc



The products are regularly audited and tested to verify that the characteristics fulfil the NorGeoSpec, Rev. 02 / 01.09.2025 requirements.

Issued by

Christoph Hessing, SINTEF Community

Approved by

Christian Recker, SINTEF Community



Certificate no.: NGS-50512

Quality Product Certification

Quality Product Certification				DoP ¹⁾	NGS		
Characteristic	Test method	Unit	DoP declared mean value	NGS declared mean value ²⁾	NGS max. tolerance ³⁾	NGS declared tolerance ⁴⁾	NGS control limits ⁵⁾
Mass per unit area	EN ISO 9864	g/m ²	(-)	90.0	± 9.0	± 9.0	81.0 - 99.0
Mechanical tests							
Tensile strength	MD	EN ISO 10319	kN/m	5.80	5.80	-0.58	-0.50
	CMD	EN ISO 10319	kN/m	7.40	7.40	-0.74	-0.70
Elongation at max. load	MD	EN ISO 10319	%	45.0	45.0	-9.0	-9.0
	CMD	EN ISO 10319	%	49.0	49.0	-9.8	-9.8
Static puncture test (CBR test)	EN ISO 12236	kN	0.950	0.950	-0.095	-0.095	≥ 0.855
Dynamic perforation test	EN ISO 13433	mm	35.0	35.0	+8.8	+8.8	≤ 43.8
Energy index	NorGeoSpec	kN/m	(-)	1.2		0.0	≥ 1.2
Hydraulic tests							
Water permeability normal to the plane, without load (velocity index V_{H50})	EN ISO 11058	l/(m ² ·s)	100.0	100.0	-30.0	-30.0	≥ 70.0
Characteristic opening size	EN ISO 12956	µm	110.0	110.0	± 33.0	± 33.0	77.0 - 143.0
Durability							
Service life		years	50	50			
Proven for installation under low temperatures	NGS, Annex G.2	(-)	(-)	down to 0°C ☒ yes down to -10°C ☐ yes / ☒ no			

Quality Product Certification:	☒	Separation and Filtration in roads and other trafficked areas	Application profile: 1
Quality Product Certification:	☐	Filtration in drainage systems	Filter profile (Fp) ⁶⁾ : (-) Mechanical profile (Mp): (-)

¹⁾ Manufacturer's Declaration of Performance acc. hEN standards

²⁾ Manufacturer's declared values

³⁾ Max. possible NorGeoSpec tolerance according to NGS, Table 1

⁴⁾ Manufacturer's declared tolerance; the tolerance for the NorGeoSpec certificate shall be equal or less than the "NGS max. tolerance" (see Table 1 Part 1 and Part 2 of the guideline)

⁵⁾ NorGeoSpec control limit values regarding fitness for use; these "NGS control limits" are calculated based on the "NGS declared mean values" and the "NGS declared tolerances"; the product has to satisfy these "NGS control limits" during the NorGeoSpec certification process and random product testing

⁶⁾ The product specification for filter profiles is based on NGS declared mean values.

(-) = no performance declared; N/R = not required; N/A = not applicable