

# NGS 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.

<b>Certificate no.:</b>	NGS-50462
<b>Manufacturer:</b>	Manifattura Fontana S.p.A.
<b>Product:</b>	Drefon RST 4
<b>Product Type:</b>	GTX-N
<b>Raw material:</b>	PP
<b>Function:</b>	<input checked="" type="checkbox"/> Separation and Filtration in roads and other trafficked areas <input checked="" type="checkbox"/> Filtration in drainage systems

This certificate was issued on 07.04.2026 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](http://www.norgeospec.org) or by using the QR code shown. Only certificates listed on [www.norgeospec.org](http://www.norgeospec.org) are valid.



The hash value of this certificate is:  
ddc3dc985054c05e1181150537a2ab72fdc38e39d48bf532f61ec9c21fee51f

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-50462

## Quality Product Certification

Quality Product Certification			DoP <sup>1)</sup>	NGS				
Characteristic	Test method	Unit	DoP declared mean value	NGS declared mean value <sup>2)</sup>	NGS max. tolerance <sup>3)</sup>	NGS declared tolerance <sup>4)</sup>	NGS control limits <sup>5)</sup>	
Mass per unit area	EN ISO 9864	g/m <sup>2</sup>	(-)	235.0	± 23.5	± 23.5	211.5 - 258.5	
<b>Mechanical tests</b>								
Tensile strength	MD	EN ISO 10319	kN/m	21.55	21.55	-2.16	-2.15	≥ 20.01
	CMD	EN ISO 10319	kN/m	22.90	22.90	-2.29	-2.29	
Elongation at max. load	MD	EN ISO 10319	%	48.0	48.0	-9.6	-9.6	≥ 41.8
	CMD	EN ISO 10319	%	56.5	56.5	-11.3	-11.3	
Static puncture test (CBR test)	EN ISO 12236	kN	3.000	3.000	-0.300	-0.300	≥ 2.700	
Dynamic perforation test	EN ISO 13433	mm	18.0	18.0	+4.5	+4.0	≤ 22.0	
Energy index	NorGeoSpec	kN/m	(-)	4.5		0.0	≥ 4.5	
<b>Hydraulic tests</b>								
Water permeability normal to the plane, without load (velocity index V <sub>H50</sub> )	EN ISO 11058	l/(m <sup>2</sup> ·s)	35.0	35.0	-10.5	-10.0	≥ 25.0	
Characteristic opening size	EN ISO 12956	µm	64.0	64.0	± 19.2	± 19.2	44.8 - 83.2	
<b>Durability</b>								
Service life		years	100	100				
Proven for installation under low temperatures	NGS, Annex G.2	(-)	(-)	down to 0°C	<input checked="" type="checkbox"/> yes			
				down to -10°C	<input type="checkbox"/> yes / <input checked="" type="checkbox"/> no			

Quality Product Certification:  Separation and Filtration in roads and other trafficked areas Application profile: 4

Quality Product Certification:  Filtration in drainage systems Filter profile (Fp)<sup>6)</sup>: 1, 2, 3, 4, 5, 6 Mechanical profile (Mp): 4

<sup>1)</sup> Manufacturer's Declaration of Performance acc. hEN standards

<sup>2)</sup> Manufacturer's declared values

<sup>3)</sup> Max. possible NorGeoSpec tolerance according to NGS, Table 1

<sup>4)</sup> 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)

<sup>5)</sup> 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

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

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