

# 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-50545                                                                                                                                                               |
| Manufacturer:    | Geo&Tex 2000 S.p.A.                                                                                                                                                     |
| Product:         | GEO PP 2NG/08                                                                                                                                                           |
| Product Type:    | GTX-N                                                                                                                                                                   |
| Raw material:    | PP                                                                                                                                                                      |
| Function:        | <input checked="" type="checkbox"/> Separation and Filtration in roads and other trafficked areas<br><input checked="" type="checkbox"/> Filtration in drainage systems |

This certificate was issued on 18.08.2026 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:  
16adf3458e62574e556d75e8ef571376aa675dcad58c8d7c79f71e259a4c39



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-50545

## 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>      | (-)                     | 135.0                                                                                                                                      | ± 13.5                           | ± 13.5                               | 121.5 - 148.5                    |
| <b>Mechanical tests</b>                                                          |                |                       |                         |                                                                                                                                            |                                  |                                      |                                  |
| Tensile strength                                                                 | MD             | EN ISO 10319          | kN/m                    | 10.70                                                                                                                                      | -1.07                            | -1.00                                | ≥ 10.00                          |
|                                                                                  | CMD            | EN ISO 10319          | kN/m                    | 11.30                                                                                                                                      | -1.13                            | -1.00                                |                                  |
| Elongation at max. load                                                          | MD             | EN ISO 10319          | %                       | 41.0                                                                                                                                       | -8.2                             | -8.2                                 | ≥ 39.2                           |
|                                                                                  | CMD            | EN ISO 10319          | %                       | 57.0                                                                                                                                       | -11.4                            | -11.4                                |                                  |
| Static puncture test (CBR test)                                                  | EN ISO 12236   | kN                    | 1.600                   | 1.600                                                                                                                                      | -0.160                           | -0.160                               | ≥ 1.440                          |
| Dynamic perforation test                                                         | EN ISO 13433   | mm                    | 31.0                    | 31.0                                                                                                                                       | +7.8                             | +7.0                                 | ≤ 38.0                           |
| Energy index                                                                     | NorGeoSpec     | kN/m                  | (-)                     | 2.1                                                                                                                                        |                                  | 0.0                                  | ≥ 2.1                            |
| <b>Hydraulic tests</b>                                                           |                |                       |                         |                                                                                                                                            |                                  |                                      |                                  |
| Water permeability normal to the plane, without load (velocity index $V_{H50}$ ) | EN ISO 11058   | l/(m <sup>2</sup> ·s) | 60.0                    | 60.0                                                                                                                                       | -18.0                            | -18.0                                | ≥ 42.0                           |
| Characteristic opening size                                                      | EN ISO 12956   | µm                    | 70.0                    | 70.0                                                                                                                                       | ± 21.0                           | ± 21.0                               | 49.0 - 91.0                      |
| <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<br>down to -10°C <input type="checkbox"/> yes / <input checked="" type="checkbox"/> no |                                  |                                      |                                  |

|                                |                                     |                                                               |                                                                                    |
|--------------------------------|-------------------------------------|---------------------------------------------------------------|------------------------------------------------------------------------------------|
| Quality Product Certification: | <input checked="" type="checkbox"/> | Separation and Filtration in roads and other trafficked areas | Application profile: 2                                                             |
| Quality Product Certification: | <input checked="" type="checkbox"/> | Filtration in drainage systems                                | Filter profile (Fp) <sup>6)</sup> : 1, 2, 3, 4, 5, 6<br>Mechanical profile (Mp): 2 |

- <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