

DECLARATION OF PERFORMANCE

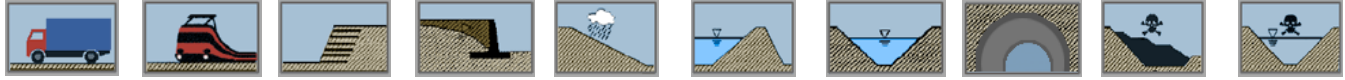
0338-CPR-0693/200

09

1. **Needle Punched Non-Woven Polypropylene Geotextile Fabric**

2. **200NW**

3. **Applications and intended uses of the needle punched non-woven geotextile**



EN 13249	EN 13250	EN 13251	EN 13252	EN 13253	EN 13254	EN 13255	EN 13256	EN 13257	EN 13265
F, S, R	F, S, R	F, S, R	F, S, R	F, S, D	F, S, R	F, S, R		F, S, R	F, R

EN 13249:2000/A1:2005, EN 13250:2000/A1:2005, EN 13251:2000/A1:2005, EN 13252:2000/A1:2005,
EN 13253:2000/A1:2005, EN 13254:2000/A1:2005/AC:2003, EN 13255:2000/A1:2005/AC:2003,
EN 13256:2000/A1:2005, EN 13257:2000/A1:2005/AC:2003, EN 13265:2000/A1:2005/AC:2003



F=Filtration



R=Reinforcement



S=Separation



D=Drainage

4. **Manufactured by:** THRACE NonWovens & Geosynthetics S.A. - Head office: 20 Marinou Antipa str., GR-174 55 Alimos Athens, Greece / Factory: Magiko Xanthis, GR-671 00, Greece.

5. **System or systems of assessment and verification of constancy of performance:** System 2+

6. **BTTG Testing & Certification Ltd. (Notified Body 0338)** performed the initial inspection of the manufacturing plant and of factory production control and performs the continuous surveillance, assessment and evaluation of factory production control under System 2+ and issued the Certificate of Factory Production Control (0338-CPR-0693).

7. **Declared performance:**

Essential Characteristics	Harmonized Technical Specification	Units	Mean Values	Tolerance
Tensile Strength (MD/CD)	EN ISO 10319	kN/m	16.7/16.7	-1.7/-1.7
Elongation (MD/CD)	EN ISO 10319	%	45/45	-9/-9
Resistance to static puncture	EN ISO 12236	N	2350	-235
Dynamic Perforation resistance	EN ISO 13433	mm	23	+4
Characteristic Opening Size (O ₉₀)	EN ISO 12956	µm	90	±27
Water permeability V _{IH50}	EN ISO 11058	mm/sec	60	-18
Water flow rate	EN ISO 11058	l/m ² /sec	60	-18
Water flow capacity in the plane (MD/CD)	HG 1.0 at 20kPa	l/m/sec*10 ⁻²	4.82/5.45	-
	HG 1.0 at 100kPa		2.30/2.75	-
	HG 1.0 at 200kPa		1.00/1.57	-

Durability:

To be covered within two weeks after installation. Predicted to be durable for up to 100 years in natural soils with 4≤pH≤9 and soil temperatures ≤25°C and is highly resistant to acidic and alkaline environments, based on a durability assessment (EN ISO 13438, procedure A, mod., 28d in water at 80°C followed by 112d in air at 100°C).

Dangerous substances

Less than required by national regulations in EU member states

8. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 7. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer
Konstantinos Emmanouil

Quality Control Manager
Thrace Nonwovens & Geosynthetics S.A.