



DECLARATION OF PERFORMANCE
1071-CPR-7027/TGC-33L-S22

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1. **Geocomposite (Extruded Biaxial Geogrid Polypropylene Geotextile / Needle Punched Nonwoven Polypropylene Geotextile)**
2. **TGC-33L-S22**

3. **Intended uses of the construction product, as foreseen by the manufacturer:**

Intended use	Harmonized Technical Specification	Functions
For roads and other trafficked areas	EN 13249:2016	F, S, R
For railways	EN 13250:2016	F, S, R
For earthworks, foundations and retaining structures	EN 13251:2016	F, S, R
For drainage control	EN 13252:2016	F, S
For erosion control works	EN 13253:2016	F, S, R
For reservoirs and dams	EN 13254:2016	F, S, R
For canals	EN 13255:2016	F, S, R
For solid waste disposal	EN 13257:2016	F, S, R
For liquid waste containment	EN 13265:2016	F, R

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

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

6. **SINTEF (Notified Body 1071)** 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 (1071-CPR-7027).

7. **Declared performance:**

ESSENTIAL CHARACTERISTICS	HARMONIZED TECHNICAL SPECIFICATION	UNITS	MEAN VALUE	TOLERANCE
S22NW filter geotextile				
Resistance to static puncture	EN ISO 12236	kN	3.7	-0.555
Dynamic Perforation resistance	EN ISO 13433	mm	15	+3.7
Characteristic Opening Size (O ₉₀)	EN ISO 12956	µm	70	±21
Water flow velocity V _{H50} - 50mm head	EN ISO 11058	l/(m ² s)	70	-21
TGC-33L-S22 geocomposite				
Ultimate Tensile Strength (MD/CD)	EN ISO 10319	kN/m	33/33	-3/-3
Elongation at Maximum Load (MD/CD)	EN ISO 10319	%	16/10	±6/±3
Tensile Strength at 2% Strain (MD/CD)	EN ISO 10319	kN/m	11/11	-1/-1

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 above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer

Konstantinos Emmanouil

Quality Control Manager

Thrace Nonwovens & Geosynthetics S.A.

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