

# DECLARATION OF PERFORMANCE

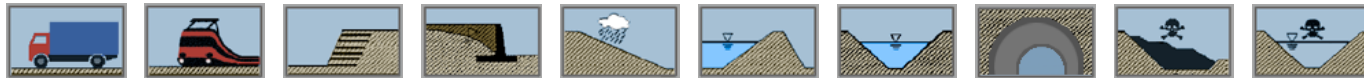
## 0338-CPR-0689/S8

### 09

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

2. **S8NW**

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	F	F	F	F	F	F		F	F
R	R	R	D	R	R	R		R	R
F+S	F+S	F+S	F+S	F+S	F+S	F+S		F+S	F+R
R+S	R+S	R+S	F+D	R+S	R+S	R+S		R+S	
F+R	F+R	F+R	F+S+D	F+R	F+R	F+R		F+R	
F+R+S	F+R+S	F+R+S		F+R+S	F+R+S	F+R+S		F+R+S	

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, EN 13255:2000/A1:2005, EN 13257:2000/A1:2005, EN 13265:2000/A1:2005



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 Xanthi, GR-671 00, Greece.

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

6. **BTG 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-0689).

7. **Declared performance:**

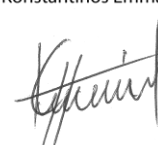
Essential Characteristics	TEST METHOD	VALUE	METRIC UNITS	TOLERANCE	
Tensile Strength (MD/CD)	EN 10319	Average	kN/m	8.0/8.0	
Elongation (MD/CD)	EN 10319	Average	%	45/45	
Resistance to static puncture	EN ISO 12236	Average	N	1500	
Dynamic Perforation resistance	EN ISO 13433	Average	mm	36	
Characteristic Opening Size (O <sub>90</sub> )	EN ISO 12956	Average	µm	100	
Water permeability V <sub>150</sub>	EN ISO 11058	Average	mm/sec	130	
Water flow rate	EN ISO 11058	Average	l/m <sup>2</sup> /sec	130	
Water flow capacity in the plane (MD/CD)	HG 1.0 at 20kPa	EN ISO 12958	Average	l/m <sup>2</sup> /sec*10 <sup>-4</sup>	37/25
	HG 1.0 at 100kPa				2.2/3.8
	HG 1.0 at 200kPa				1.7/1.3
Weathering Resistance (MD/CD)	EN 12224	Average	%retained strength	90/90	
Resistance to Liquids – Acid (MD/CD)	EN 14030	Average		90/90	
Resistance to Liquids – Alkaline (MD/CD)	EN 14030	Average		90/90	
Oxidation Resistance (MD/CD)	EN ISO 13438	Average		90/90	
Microbiological Resistance(MD/CD)	EN 12225	Average		90/90	
Mass/Unit Area	EN 9864	Average	gr/m <sup>2</sup>	100	
Thickness (2kPa)	EN 9863-1	Average	mm	0.8	

**Durability:**

To be covered within one month after installation in non-reinforcing applications or within two weeks after installation in reinforcing applications. Predicted to be durable for up to 100 years in soil temperatures >25°C and is resistant to highly acid and alkaline environments on the basis of a durability assessment.

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.