

## DECLARATION OF PERFORMANCE

**1071-CPR-7027/200NW**

**12**

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

2. **200NW**

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

| Intended use            | roads and other trafficked areas | railways | earthworks, foundations and retaining structures | drainage control | erosion control | reservoirs and dams | canals   | solid waste disposal | liquid waste containment |
|-------------------------|----------------------------------|----------|--|------------------|-----------------|---------------------|----------|----------------------|--------------------------|
| Technical Specification | EN 13249                         | EN 13250 | EN 13251   | EN 13252         | EN 13253        | EN 13254            | EN 13255 | EN 13257             | EN 13265                 |
| Function                | F,S,R                            | F,S,R    | F,S,R  | F,S,D            | F,S,R           | F,S,R               | F,S,R    | F,S,R                | 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 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 <sub>90</sub> ) | EN ISO 12956                       | μm                       | 90          | ±27       |
| Water permeability V <sub>LH50</sub>           | EN ISO 11058                       | mm/sec                   | 60          | -18       |
| Water flow rate                                | EN ISO 11058                       | l/m <sup>2</sup> /sec    | 60          | -18       |
| Water flow capacity in the plane (MD/CD)       | HG 1.0 at 20kPa                    | l/m/sec*10 <sup>-2</sup> | 4.82/5.45   | -30%      |
|  | HG 1.0 at 100kPa                   |                          | 2.30/2.75   | -30%      |
|  | HG 1.0 at 200kPa                   |                          | 1.00/1.57   | -30%      |

### **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).

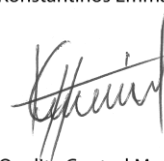
### **Dangerous substances**

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.