



## DECLARATION OF PERFORMANCE

No. DN-GEO-memb

According to Annex III of the Regulation (EU) No. 305/2011

Name of the product

### Elastomeric (SBS) Bituminous Waterproofing Membranes

1. Unique identification code of the product-type:

**ESHADIEN GEO**

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11 (4):  
**Batch number: see packaging of the product**
3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:  
**Waterproofing of flat and inclined roofs, under tile waterproofing, waterproofing of basements, underground structures, bridges and general construction elements**
4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11 (5):

**ALFA ALFA ENERGY SA  
Paralia Aspropyrgou Attikis  
19300 Aspropyrgos, Athens - Greece**

5. Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12 (2):  
**Not relevant**
6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:  
**System 2+**
7. In case of the declaration of performance concerning a construction product covered by a harmonized standard:

**EN 13707:2004+A2:2009: System 2+**

The notified body

**TZUS, Technical & Test institute for construction, Prague**

Performed the initial inspection of the manufacturing plant and of the factory production control and the continuous surveillance, assessment and evaluation of factory production control under system 2+ and issued:

**1020-CPR-010021423**

Certificate of conformity of the factory production control

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

**Not relevant**

#### ALFA ALFA ENERGY S.A

Offices - Production: Paralia Aspropyrgou, 193 00 Aspropyrgos Attikis Tel: 210-5518700 Fax: 210-5572974

Offices - Warehouse Thessaloniki: Ipirou 18, 570 09 Kalochori, Thessaloniki Tel: 2310-783725, Fax: 2310-783326

Offices - Warehouse SOFIA Bulgaria Kv.Drujba Tel: +3592 9791119, Fax:+3592 9791180

e-mail: [info@esha.gr](mailto:info@esha.gr) , [www.esha.gr](http://www.esha.gr)

REGISTER No. S.A.: 8088/03/B/86/63(06) & 121709007000

V.A.T. No. EL 094119545

Company Certified by



EN ISO 9001: 2015

EN ISO 14001: 2015





9. Declared performance

| Technical Characteristics              | T*    | Performance               | Unit              | Test Specification      |
|--|-------|---------------------------|-------------------|-------------------------|
| Length                                 | ±0.02 | 10                        | m                 | EN 1848-1               |
| Width                                  |       | 1                         | m                 | EN 1848-1               |
| Mass/m <sup>2</sup>                    | ±0.2  | 4.5                       | Kg/m <sup>2</sup> | EN 1849-1               |
| Softening Point                        | ±10   | 130                       | °C                | EN 1427                 |
| Penetration at 25 °C                   | ±5    | 35                        | dmm               | EN 1426                 |
| Tensile strength L/T                   | ±20%  | 700/500 polyester         | N/50mm            | EN 12311-1              |
| Elongation L/T                         | ±15%  | 45/55 polyester           | %                 | EN 12311-1              |
| Tear resistance L/T                    | ±15%  | 300/450                   | N                 | ASTM D-4073-94          |
| Static puncture resistance (concrete)  | ≥     | L3 (15-25 Kg) polyester   | kg                | EN 12730, UEAtc MOAT 27 |
| Dynamic puncture resistance (concrete) | ≥     | 13Ø8 polyester            | mm                | EN 12691, UEAtc MOAT 27 |
| Flexibility to low temperatures        | ±3    | -20                       | °C                | EN 1109                 |
| Water tightness                        | ≥     | 2                         | bar               | UEAtc / EN 1928         |
| Vapor diffusion coefficient            | >     | 20000                     | ---               | EN 1931                 |
| Heat Resistance                        | ≤     | 110                       | °C                | EN 1110                 |
| Reaction to Fire                       | ≥     | F                         | ---               | EN 13501-1              |
| Thermal conductivity                   |       | 0.2                       | W/mK              |                         |
| Dimensional Stability                  | ≥     | -0.15/+0.15 L/T polyester | %                 | EN 1107-1               |

Company Certified by



EN ISO 9001: 2015

EN ISO 14001: 2015

T\*: Tolerance



**ALFA ALFA ENERGY S.A**

Offices - Production: **Paralia Aspropyrgou, 193 00 Aspropyrgos Attikis** Tel: 210-5518700 Fax: 210-5572974

Offices - Warehouse Thessaloniki: Ipirou 18, 570 09 Kalochori, Thessaloniki Tel: 2310-783725, Fax: 2310-783326

Offices - Warehouse SOFIA Bulgaria Kv.Drujba Tel: +3592 9791119, Fax:+3592 9791180

e-mail: [info@esha.gr](mailto:info@esha.gr) , [www.esha.gr](http://www.esha.gr)

REGISTER No. S.A.: 8088/03/B/86/63(06) & 121709007000

V.A.T. No. EL 094119545





- **Further to the requirements of EN 13707**

| Technical Characteristics  | T | Performance | Unit | Test Specification |
|--|---|-------------|------|--------------------|
| Elastic recovery of the bituminous binder of the membrane  | ≥ | 90          | %    | EN 13398           |
| Elastic recovery of the bituminous binder of the membrane after the oxidative aging (R.T.F.O.T.), EN 12607-1 | ≥ | 90          | %    | EN 13398           |

10. The performance of the product identified in points **1** and **2** is in conformity with the declared performance in point **9**. 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 by:

Elias Aloupis,  
Chemical Engineer  
Quality Control Manager

Aspropyrgos, 18/11/2020

Company Certified by



EN ISO 9001: 2015

EN ISO 14001: 2015



**ALFA ALFA ENERGY S.A**

**Offices - Production: Paralia Aspropyrgou, 193 00 Aspropyrgos Attikis** Tel: 210-5518700 Fax: 210-5572974

Offices - Warehouse Thessaloniki: Ipirou 18, 570 09 Kalochori, Thessaloniki Tel: 2310-783725, Fax: 2310-783326

Offices - Warehouse SOFIA Bulgaria Kv.Drujba Tel: +3592 9791119, Fax:+3592 9791180

e-mail: [info@esha.gr](mailto:info@esha.gr) , [www.esha.gr](http://www.esha.gr)

REGISTER No. S.A.: 8088/03/B/86/63(06) & 121709007000

V.A.T. No. EL 094119545