



DECLARATION OF PERFORMANCE

No. GM-memb

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

Name of the product

Plastomeric (APP) Bituminous Waterproofing Membranes

1. Unique identification code of the product-type:

ESHAGUM-ANTIROOT

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 where root penetration resistance is required

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+
EN 13969:2004+A1:2006 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

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

Offices - Warehouse SOFIA Bulgaria Kv.Drjuba Tel: +3592 9791119

e-mail: info@esha.gr , 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	8 or 10	m	EN 1848-1
Width		1	m	EN 1848-1
Weight	±0.2	3.0 - 6.0	Kg/m ²	EN 1849-1
Softening Point	≥	148	°C	EN 1427
Penetration at 25 °C	±5	25	dmm	EN 1426
Tensile strength L/T	±20%	Nonwoven polyester -SP: 900/650 Longitudinal Reinforced polyester: 550/420	N/50mm	EN 12311-1
Elongation L/T	±15%	Nonwoven polyester -SP: 50/60 Longitudinal Reinforced polyester: 40/55	%	EN 12311-1
Static puncture resistance (concrete)	≥	Polyester: L3 (15-25 kg)	kg	EN 12730, UEA ^{tc} MOAT 27
Dynamic puncture resistance (concrete)	≥	Polyester: 13 Ø 8	mm	EN 12691, UEA ^{tc} MOAT 27
Flexibility to low temperatures	±5	-10	°C	EN 1109
Water tightness	≥	2	bar	UEA ^{tc} / EN 1928
Vapor diffusion coefficient	>	20000	---	EN 1931
Heat Resistance	≤	130	°C	EN 1110
Reaction to Fire	≥	F	---	EN 13501-1
Dimensional Stability	≥	-0,15 / +0,1 L/T Polyester	%	EN 1107-1

T*: Tolerance

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

Company Certified by



EN ISO 9001: 2015

EN ISO 14001: 2015



Technical Characteristics	T	Performance	Unit	Test Specification
Root Penetration Resistance	-	without root penetration after 8 weeks	(-)	UNE 53420 DIN 4062 (Lupine Test)

ALFA ALFA ENERGY S.A

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

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

Offices - Warehouse SOFIA Bulgaria Kv.Drjuba Tel: +3592 9791119

e-mail: info@esha.gr , www.esha.gr

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

V.A.T. No. EL 094119545





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, 23/09/2022

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

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

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

e-mail: info@esha.gr , www.esha.gr

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

V.A.T. No. EL 094119545