



DECLARATION OF PERFORMANCE

No. DACH170

Name of the product
Breathable Membranes

1. Unique identification code of the product-type:

ESHADACH 170

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:

Breather waterproof roofing underlay manufactured by thermally bonding outer spunbonded polypropylene layers and inner layer of microporous polypropylene film for pitched supported or unsupported roof construction for both applications, timber sarking or directly over thermal insulation with recommended overlap. This product does not contain any dangerous substances.

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 3

7. In case of the declaration of performance concerning a construction product covered by a harmonized standard:

EN 13859-1, attestation under system 3 performed and test report issued in CSI a.s. (NB 1390)

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

Not relevant

Company Certified by



EN ISO 9001: 2015

EN ISO 14001: 2015



ALFA ALFA ENERGY S.A

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

V.A.T. No. EL 094119545





9. Declared performance

Technical Characteristics	T		Performance	Unit	Test Specification
Reaction to fire	-	-	E	[class]	EN 13501 EN 11925-2
Resistance to water penetration	-	-	W1	[class]	EN 1928 EN 13111
Resistance to water penetration after artificial ageing	-	-	W1	[class]	EN 13859-1 Annex C
Water vapour transmission properties (Sd)	-0.01	+0.015	0.02	m	EN 12572 EN 1931
Tensile Properties: Maximum tensile force MD /CMD	-40/-30	+40/+30	330/230	N/50mm	EN 12311-1 EN 13859-1
Max tensile force after artificial ageing MD/CMD	-45/-30	+60/+45	290/200	N/50mm	EN 13859-1 Annex C
Tensile Properties: Elongation MD /CMD	-25/-30	+25/+20	55/80	%	EN 12311-1 EN 13859-1
Elongation after artificial ageing MD /CMD	-25/-32	+25/+20	45/65	%	EN 13859-1 Annex C
Resistance to tearing MD/CMD	-40/-50	+40/+70	190/230	N	EN 12310-1 EN 13859-1
Flexibility at low temperature	-	-	-20	°C	EN 1109 EN 495-5

Company Certified by



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**.

EN ISO 9001: 2015

EN ISO 14001: 2015

Signed for and on behalf of the manufacturer by:




Elias Aloupis,
Chemical Engineer
Quality Control Manager

Aspropyrgos, 03/12/2018

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