



BITUMINOUS VAPOR CONTROL LAYER WITH ALUMINIUM BOTTOM FINISH

GENERAL DESCRIPTION

EshaPer-Al is a **perforated bituminous membrane**, composed of modified bitumen, perforated glass-fleece reinforcement, quartz sand top cover and perforated aluminium bottom cover. Its total weight is 1.5 kg/m² and is used as a vapor control layer in bituminous waterproofing systems of one or more layers. The perforations on **EshaPer-Al** surface allow partial adhesion of the overlaying waterproofing membranes to the substrate and create vapour pressure relief areas.

NORMS/CERTIFICATIONS

- Standards: **EN 13707**, **EN 13969**.
- Approved with **CE No. 1020-CPD-010021423**
- Waterproofing application to terraces according to **EN 13707**

For all available certificates and certifications please contact Esha Sales Department.

STORAGE

Membrane rolls should be stored in their original package, in vertical position, protected from direct sunlight, rain, snow and ice.



APPLICATION PROCEDURE

Surface preparation

Before the application of the membrane it is necessary to properly prepare the substrate surface.

- The substrate surface must be thoroughly cleaned so as to remove all dust, loose matter and remaining oils, and be smooth and dry.
- Recommended surface slope: 1.5% minimum.
- The surface must be primed with Esha Roofcoat No 10 elastomeric bituminous varnish at a consumption of 0,4-0,5 Kg/m², or EshaLac 50S bituminous primer at a consumption of 0,3 Kg/m².
- As soon as the surface is dry, **EshaPer-Al** can be applied.

Application of EshaPer-Al

- EshaPer-Al** application starts from the lowest point of slopes in order to secure unobstructed water flow, when membranes are placed one in parallel to the other.
- EshaPer-Al** membrane does not adhere to the substrate. It is simply laid on the substrate surface.

- Vapor circulates below **EshaPer-Al** layer and is directed to roof ventilators, applied in later steps.
- The longitudinal and transversal overlaps should be 10 cm.
- EshaPer-Al** covers only the horizontal surfaces up to a distance of 30 cm from any vertical surface.
- The following bituminous waterproofing layers which are torch applied, are positioned in the same direction as **EshaPer-Al** but with a parallel movement of 50 cm relative to **EshaPer-Al**.

Application notes

- Application temperature should be higher than 5 °C.
- The waterproofing should be carried out by technicians, properly trained and certified in the bituminous membranes application.

For a more detailed description of bituminous waterproofing membranes' application please contact the Esha Sales Department.

**PER-AL**BITUMINOUS VAPOR CONTROL LAYER
WITH ALUMINIUM BOTTOM FINISH**TECHNICAL CHARACTERISTICS**

BITUMINOUS COMPOUND	Modified bitumen
TOP SURFACE FINISH	Quartz sand
BOTTOM SURFACE FINISH	Perforated aluminium foil
REINFORCEMENT	Glassfleece (perforated) 40 or 50 gr/m ²
WEIGHT EN 1849-1	1,5 kg/m ²
THICKNESS EN 1849-1	1,8 mm
Softening point EN 1427	80 °C
Roll Dimensions (W x L) EN 1848-1	1 m x 20 m

Tolerances in the nominal values are in accordance with respective standards.
Producer reserves the right to modify the properties of his products

The information contained in this leaflet is, to the best of our knowledge, true and reliable and is supported by the present state of our knowledge. According to the care taken and the method of application, upon which we have no influence, the values are subject to divergence. Therefore for best results, prior to use, an application test should be made by the user under his own processing conditions.

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EN ISO 9001:2008
Cert. No. 605/D/2010EN ISO 14001:2004
Cert. No. EN 67/P/2010