



# AquaThene<sup>®</sup> ALU

**Bituminous, self-adhesive vapor barrier membrane with a laminate layer of aluminum foil for use in construction**

- for waterproofing subfloor layers, facades, and ventilation applications
- resistant to UV radiation
- sealing immediately after laying
- excellent adhesive properties
- cold bonding
- flexible
- crack bridging
- simple application
- solvent-free product

## Product description

**AquaThene ALU** is a 0.8 mm thick self-adhesive waterproofing membrane with a 1000 mm band width, consisting of a laminate layer of PET-AL-PET aluminum foil, resistant to UV radiation and tearing, and a polymer-modified bitumen mass. The adhesive surface is secured with a protective paper as standard. The membrane does not contain solvents and does not pollute the groundwater. It can be used in temperatures from -5°C to +30°C.

## Intended use

The **AquaThene ALU** membrane is intended for use as a vapor barrier membrane under floors, a protective layer of thermal insulation on flat roofs, as a sealing tape on facades and for ventilation applications. It can be laid on horizontal and vertical surfaces, on all types of mineral substrates, such as concrete, aerated concrete, mineral plasters, brick walls or concrete blocks.

For more information on other possible applications of the membrane, please contact our technical advisor

## Preparation of the substrate

The substrate must be strong, stable, even, without open scratches and protruding elements. Sharp edges and corners should be chamfered or curved. Fill in gaps and scratches.

In order to avoid blisters on very porous or uneven surfaces, where the contact surface is less than 80%, a layer of lean concrete should be poured or a leveling layer should be made. The surface of the substrate should be free of ice, oil stains, tar, mortar residues, dust and dirt.

Lay the membrane on dry surfaces with a humidity not exceeding 8%. During installation, do not allow water to remain between the substrate and the membrane.

Mineral surfaces should be primed with **AquaThene PRIMER**. Installation of membranes can begin after the primer layer has dried.

## Application

Unwind the **AquaThene ALU** roll so that the protective foil is on the bottom, cut it into strips of the required length and roll it up again.



Remove the protective layer of the foil from the membrane immediately before laying it, slowly and evenly removing the fragments approx. 30 cm long. Place the membrane on the substrate with the adhesive side and press it down using, for example, a hard brush or a cloth. Then peel off another 30 cm of the protective film. Pressing should be started from the inside and towards the outside, so as to eliminate the formation of folds and kinks in the membrane. Lay the next membrane strip with an overlap of 10 cm. Under no circumstances should the overlap be smaller than 8 cm. The places of the overlaps should be pressed particularly carefully. The membrane obtains full adhesion to the substrate after 24 hours. During installation, the membrane should be protected against excessive solar radiation, frost below -5°C, high temperature and moisture.

## Consumption

About 1,1 m<sup>2</sup> of membrane for every m<sup>2</sup> of surface to be insulated

## Package

Roll 1m x 15 m; 15 m<sup>2</sup>

## Shelf life and storage

12 months in the original packaging. Store upright. Protect against UV rays, frost, heat and moisture. Do not subject to direct sunlight. Pallets with membrane rolls must not be stacked.

## Industrial safety

Wear appropriate protective clothing when laying. Wash hands with warm water immediately after finishing work.

ESSENTIAL CHARACTERISTIC	STANDARD NO.	AquaThene ALU
visible defects	EN 1850-1	none
straightness	EN 1848-1	pass
length	EN 1848-1	15 m
width	EN 1848-1	1 m
nominal thickness	EN 1849-1	0,8 mm
watertightness	EN 1928	60 kPa
watertightness after artificial aging	EN 1296 / EN 1928	pass
watertightness after exposure to chemicals	EN 1847 / EN 1928	pass
resistance to dynamic load (impact)	EN 12691	method A: $\leq 800$ mm
resistance to tearing (nail)	EN 12310-1	40 $\pm$ 20 N
joint (connection) strength	EN 12317-1	NPD
resistance to static loading	EN 12730	NPD
tensile properties: maximum tensile force ( long. and trans.)	EN 12311-1	250 $\pm$ 70 N/50mm
tensile properties: elongation ( long. and trans.)	EN 12311-1	80 $\pm$ 60 %
flexibility at low temperature	EN 1109	$\leq -30^{\circ}\text{C}$
reaction to fire	EN 13501-1	class E
hazardous substances		none
diffusion resistance coefficient	EN 1931	Sd=1600 $\pm$ 100 m

The data contained in this technical data sheet are based on our experience and research, and constitute general information about the product and recommendations for application under standard conditions. The manufacturer guarantees the quality of the product, but has no influence on the conditions and manner of its use. In case of doubt, please contact us or make your own tests. With the appearance of this technical data sheet, the previous ones will no longer be valid.

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