



TECHNONICOL ALPHA BARRIER 4.0

Four-layer energy-saving reinforced vapor barrier film with aluminium coating

Product description

TECHNONICOL ALPHA BARRIER 4.0 is a four-layer energy-saving reinforced polyethylene film with an aluminium coating protected by a transparent polyester covering.

The aluminium layer provides excellent protection against water vapor ingress into the thermal insulation and structure in general though increasing its service life without repair. It also contributes to energy saving while reflecting a significant portion of thermal energy inside the house, thus reducing air conditioning and heating costs.



Mesh reinforcement and increased surface density ensure high strength of the film, enabling it to withstand loads of thermal insulation and shrinkage of structural elements. In addition, the material demonstrates outstanding elasticity even under temperatures below zero.

Area of application

TECHNONICOL ALPHA BARRIER 4.0 film is used to create vapor barrier on pitched and flat roofs, floors and walls of frame houses. Can be applied in buildings with any interior humidity conditions, including humid and wet interiors.

Performance of works

The material is installed at the inner side of the thermal insulation layer. Application temperature range is from -40°C to +80°C. More details on installation are given in the relevant manuals for pitched roofs with shingles by TECHNONICOL (nailing method).

Storage and transportation

Rolls of the material should be stored indoors in a dry place in their original packaging and taken to the construction site ready to use. Falls or other mechanical impacts should be avoided during transportation and storage. Shelf life if all storage requirements are met: 24 months from the date of production.

Main characteristics

Properties	Performance
Surface density, g/m ²	180±5%
Tensile strength L / T, N/50mm	≥ 450 / ≥ 450
Vapor permeability, Sd coefficient, m	150
Watertightness at 60 kPa for 24 hours	Class W1
UV resistance, months	≥ 2
Length, m	50±5%
Width, m	1.5±1%