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**TECHNONICOL ALPHA Barrier 4.0 Vapor Barrier Membrane**

Multilayer energy-saving reinforced polyethylene film consisting of aluminum-coated polyethylene protected with transparent polyester coating.


**Product description:**

TECHNOMICOL ALPHA Barrier 4.0 is a four-layer, vapor barrier foil-coated membrane, which has zero vapor permeability and therefore ensures reliable protection from penetration of water vapor into the construction structure. It is high-strength, grid-reinforced material that remains flexible even at negative temperatures.

**Application area:**

It is used for arrangement of vapor insulation in inclined and flat roofs, ceilings and walls of frame houses. The film is energy efficient due to use of aluminum reflective layer, which reduces the cost of heating and air conditioning.

**Basic physical and mechanical characteristics:**

EN 13984:2013		
Characteristic	Standart	Tolerance
Length, m	EN 1848-2	50,00±1%
Width, m	EN 1848-2	1,5(-0,5%/+1%)
Mass per unit area, g/m <sup>2</sup>	EN 1849-2	180±5%
Thickness, mm	EN 1849-2	≥0,14
Straightness	EN 1848-2	Pass 75 mm/10m
Maximum tensile force, MD, N/50mm	EN 12311-2	≥450
Elongation, MD, %	EN 12311-2	≥15
Nail tearing, MD, N	EN 12310-1	≥350
Maximum tensile force, CD, N/50mm	EN 12311-2	≥450
Elongation, CD, %	EN 12311-2	≥15
Nail tearing, CD, N	EN 12310-1	≥250
Resistance to alkali, MD/CD, N/50 mm	EN 1847 (liquid 2) and EN 12311-2	≥225/225
Water vapour transmission, Sd, m	EN 1931	150±10
Resistance to water penetration	EN 1928:2000 method A	Pass
Resistance to impact	EN 12691 method B	1500
Reaction to fire	EN 13501-1	Class F

**Performance of works:**



It is used on pitched and flat roofs, as well as in walls/ceilings of frame structures. TECHNOMICOL ALPHA BARRIER 4.0 overlaps are glued with one-sided TECHNOMICOL -MULTI BAND or similar other tapes. Before sizing, it is necessary to wipe the overlap area to remove dust, this is a mandatory requirement in a dusty construction site. When using chemical additives in plaster or floor screed, check the compatibility of additives and their vapors with the film in order to prevent damage (corrosion) of the aluminum layer.

**Storage:**

Products should be stored under conditions that exclude exposure to moisture, direct sunlight, and heating.

**Transportation:**

The products may be transported by all types of covered vehicles in accordance with shipping rules that are valid for certain type of transport. When products are transported in shipping packages, only vertical installation is allowed. If products are transported without transport packages, materials can be transported in vertical and horizontal position provided that it does not endanger the integrity of the package.

**Package Details:**

TECHNONICOL ALPHA membrane rolls are supplied in individual packaging and contain a label indicating the TECHNOMICOL ALPHA brand (for example, TECHNOMICOL ALPHA BARRIER 4.0), company name, address and telephone number, as well as mounting instructions. Inside the tube there is a label with information about batch and manufacture date.