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TECHNONICOL ALPHA VENT Super-Diffusive Membrane

Three-layer film made of non-woven polypropylene and a functional waterproof layer.


Product Description:

Diffusion membrane TECHNOMICOL ALFA VENT is a three-layer material consisting of a functional microporous waterproof layer, bonded on both sides with a non-woven polypropylene fabric. Equipped with an adhesive strip for convenience and ease of installation. Resistant to mold, bacteria and UV radiation. High vapor permeability contributes to the release of excess moisture from building structures. Limited air permeability protects the insulation from convective heat loss.

Application area:

It is used to protect the heat-insulating layer in pitched roof systems, ventilated facades and walls of the frame structure from the harmful effects of water, wind, dust. It is used in constructions with single-layer ventilation, it is laid directly on the insulation or solid flooring.

Basic physical and mechanical characteristics:

EN 13859-2:2010			
Characteristic	Standart	Tolerance	
		TECHNONICOL ALPHA VENT 95	TECHNONICOL ALPHA VENT 110
Length, m	EN 1848-2	50,00±1%	50,00±1%
Width, m	EN 1848-2	1,5(-0,5%/+1%)	1,5(-0,5%/+1%)
Mass per unit area, g/m ²	EN 1849-2	95±5%	110±5%
Thickness, mm	EN 1849-2	≥0,250	≥0,300
Straightness	EN 1848-2	Pass 75 mm/10m	Pass 75 mm/10m
Tensile strength, MD, N/50mm	EN 12311-2	≥135	≥140
Elongation, MD, %	EN 12311-2	≥70	≥80
Nail tearing r, MD, N	EN 12310-1	≥90	≥110
Tensile strength, CD, N/50mm	EN 12311-2	≥65	≥70
Elongation, CD, %	EN 12311-2	≥120	≥130
Nail tearing, CD, N	EN 12310-1	≥120	≥160
Water vapour transmission, Sd, m	EN ISO 12572 C	≥0,015	≥0,015
Resistance to water penetration	EN 1928:2000, EN 13111	Pass	Pass
Dimensional stability, %	EN 1107	≤3	≤3



Flexibility at low temperature		EN 1109	-40°C	-40°C
Reaction to fire		EN 13501-1	Class F	Class F
Artificial ageing by long term exposure to the combination of UV radiation and elevated	Tensile strength, MD/CD, N/50mm	EN 12311-2	≥67,5/32,5	≥70/35
	Elongation, MD/CD, %	EN 12311-2	≥35/60	≥40/65
	Resistance to water penetration	EN 1928:2000, EN 13111	Pass	Pass

Performance of works:

Diffusion membrane TechnoNIKOL ALFA VENT installed on the outside of the insulation in pitched roofs, walls of frame structures, or under the outer cladding in ventilated facades. The canvases are mounted with an overlap and must be tightly connected to each other with a double-sided or one-sided connecting tape.

The places of abutment to mating surfaces and passage elements are also carefully sealed. The final fixing of the diffusion membrane is carried out with vertical bars on the facade or counter-bar on the roof. The ventilation gap between the membrane and the outer trim must be at least 5 cm. Avoid getting oils (for example, from a chain saw) on the membrane, and do not allow contact with sawn timber that is wet with protective compounds, as this can seriously damage the roofing membrane.

Range of application temperatures is from -40 °C to + 80 °C.

Storage:

Storage should be carried out in closed dry rooms, excluding direct sunlight, at a distance of at least 1 m from heating devices at an ambient temperature not exceeding +30 °C.

Transportation:

Products are transported by all types of transport in covered vehicles in accordance with the rules for the carriage of goods in force for this type of transport.

Package Details:

TECHNONICOL ALPHA membrane rolls are supplied in individual packaging and contain a label indicating the TECHNOMICOL ALPHA brand (for example, TECHNOMICOL ALPHA VENT), 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.