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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:

Super-diffusive membrane TECHNOMICOL ALPHA VENT is a three-layer material consisting of a functional microporous waterproof layer bonded on both sides by a non-woven polypropylene fabric. The membrane is resistant to mold, bacteria and UV radiation.

Application area:

Protection of thermal insulation layer in systems of inclined roofs and ventilated facades against harmful effects of water, wind and dust. It is placed on thermal insulation, used in structures of inclined roofs, ventilated facades and frame walls. Due to vapor permeability, the membrane promotes the removal of excessive moisture from building constructions. Low air permeability of the membrane prevents thermal insulation venting.

Basic physical and mechanical characteristics:

EN 13859-2:2010			
Characteristic	Standart	Tolerance	
		TECHNONICOL ALPHA VENT 150 S	TECHNONICOL ALPHA VENT 130S
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	150±5%	130±5%
Thickness, mm	EN 1849-2	≥0,350	≥0,300
Straightness	EN 1848-2	Pass 75 mm/10m	Pass 75 mm/10m
Tensile strength, MD, N/50mm	EN 12311-2	≥220	≥200
Elongation, MD, %	EN 12311-2	≥100	≥100
Nail tearing r, MD, N	EN 12310-1	≥160	≥150
Tensile strength, CD, N/50mm	EN 12311-2	≥160	≥130
Elongation, CD, %	EN 12311-2	≥120	≥120
Nail tearing, CD, N	EN 12310-1	≥210	≥200
Water vapour transmission, Sd, m	EN ISO 12572 C	≥0,02	≥0,02
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	≥110/80	≥100/65
	Elongation, MD/CD, %	EN 12311-2	≥50/60	≥50/60
	Resistance to water penetration	EN 1928:2000, EN 13111	Pass	Pass

Performance of works:

It is used for pitched roofs, walls of frame structures, floors and ventilated facades. The overlap of the rolls is about 10 cm, the roll is marked with marking lines for the convenience of roofers.

The membrane is used with roofing materials:

- tile
- metal tiles, profiled flooring and click-fold
- bitumen tiles (shingles)
- composite metal roof tiles
- piece metal roof (piece metal roof tiles)
- seam roof (as a dividing layer)
- natural slate and composite tiles.

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

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.

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.