



## TECHNONICOL ALPHA TOP Super-Diffusive Membrane

Non-woven fabric coated with thermoplastic polyurethane



### Product Description:

Super-diffusive membrane TECHNOMICOL ALPHA TOP Two-layer film with a non-woven polyester base and a vapor-permeable coating made of thermoplastic polyurethane. The membrane is resistant to mold, bacteria and UV radiation.

### Application area:

diffusion and anti-condensate properties. Prevents condensation from dampening the insulation and truss structure at times of extreme formation of condensation moisture due to the ability to adsorb moisture and then remove it by diffusion. As a rule, this happens during the winter period of internal plastering and floor filling. The adsorption layer can "bind" up to 1000 g / m<sup>2</sup> of moisture, the insulation and rafters always remain dry. For the production of non-woven material innovative BiCo technology was used, which provides increased mechanical and operational characteristics of the film. The main function of the membrane is the protection of the heat-insulating layer in the systems of inclined roofs and ventilated facades against harmful effects of water, wind and dust. It can be used as a temporary roof for up to 6 months. This material is laid directly on the insulation, on solid deck or lath. Due to high vapor permeability, the membrane promotes the removal of excessive moisture from building It has constructions.

### Basic physical and mechanical characteristics:

EN 13859-2:2010		
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	190±5%
Thickness, mm	EN 1849-2	≥0,400
Straightness	EN 1848-2	Pass 75 mm/10m
Tensile strength, MD, N/50mm	EN 12311-2	≥350
Elongation, MD, %	EN 12311-2	≥40
Nail tearing, MD, N	EN 12310-1	≥320
Tensile strength, CD, N/50mm	EN 12311-2	≥200
Elongation, CD, %	EN 12311-2	≥70
Nail tearing, CD, N	EN 12310-1	≥320
Water vapour transmission, Sd, m	EN ISO 12572 C	≥0,15
Resistance to water penetration	EN 1928:2000, EN 13111	Pass
Dimensional stability, %	EN 1107	≤3



Flexibility at low temperature		EN 1109	-40°C
Reaction to fire		EN 13501-1	Class E
Artificial ageing by long term exposure to the combination of UV radiation and elevated temperature and heat in accordance with Annex C	Tensile strength, MD/CD, N/50mm	EN 12311-2	≥175/100
	Elongation, MD/CD, %	EN 12311-2	≥20/35
	Resistance to water penetration	EN 1928:2000, EN 13111	Pass

### Performance of works:

The membrane is mounted on insulation or solid flooring. The overlap is approximately 10 cm, for the convenience of roofers, marking lines are applied on the edges of the rolls. Overlap sizing is performed with one-sided - TECHNONICOL ALPHA BAND tape to ensure a water-and air-tight joint.

TECHNONICOL ALPHA TOP can be used in structures with one or two ventilation gaps. The membrane is mounted on rafters or solid flooring. It can be used as a temporary roof during long breaks in the course of roofing work, while using TECHNONICOL ALPHA system accessories to seal the attachment points and overlaps. 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. 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 TECHNONICOL ALPHA brand (for example, TECHNONICOL ALPHA TOP), 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.