

TECHNICAL SHEET

RADON VAP AL P4

Waterproofing membrane with a polyester and aluminium reinforcement and elastomere modified bitumen

Product description **RADON VAP AL P4** is bitumen waterproofing membrane made from a polyester with aluminium reinforcement that is coated on both sides with elastomere modified bitumen. The membrane is protected on both sides by polymeric sheeting.

Characteristics of the product **RADON VAP AL P4** meets the demands of the standards EN 13970 and EN 13969 for type A and type T. Aluminum in membrane provides water vapor and radon protection, while the polyester felt give to the product high resistance against penetration and tearing.

Characteristic	EN Method	Unit	Value
Reinforcement	polyester fleece with AL		
Surface protection	polymeric sheeting / polymeric sheeting		
Length	1848-1	m	≥ 7,5
Width	1848-1	m	≥ 1
Thickness	1849-1	mm	≥ 3,6
Straightness	1848-1	20mm/10m	pass
Water tightness	1928	kPa	≥ 100
Durability of water tightness against artificial ageing (12 weeks at 70°C)	1296/1928	kPa	≥ 100
Resistance to impact	12691/A	mm	≥ 1000
Resistance to static loading	12730/B	kg	≥ 15
Flexibility at low temperature	1109	°C	≤ -15
Resistance to tearing - longitudinal - transversal	12310-1	N	≥ 150 ≥ 200
Shear resistance of joints - longitudinal - transversal	12317-1	N/50 mm	≥ 500 ≥ 400
Water vapor transmission properties	1931	μ	1,6*10 ⁶ ±10%
Water vapour transmission properties Sd	1931	m	> 1500
Durability of water vapour resistance against artificial ageing	1296/1931	change	< 50%
Permeability to radon gas	ISO/TS 11665-13	m ² /s	(1,6±0,2)x10 ⁻¹²
Reaction to fire	13501-1	Class	E
Chemical resistance	1847/13969 Annex A	-	pass
Tensile properties - longitudinal - transversal	12311-1	N/50mm	≥ 500 ≥ 400
Elongation - longitudinal - transversal	12311-1	%/50mm	≥ 2,0 ≥ 2,0
Content of dangerous substances	Annex ZA	/	no

Use and installation

RADON VAP AL P4 is used as vapor barrier in flat roof systems. It also be used in waterproofing systems of the underground parts of objects, especially as protection against radon gas. The membrane is applied by exceptionally by torching with a 10 cm overlap.

Storage and transport

The rolls must be stored in an upright position, protected against dampness and extreme temperatures. In winter it is recommended to store the rolls before installation for 24 hours at a temperature of over + 5°C. The carrier is responsible for the correct transport.

Disposal considerations of waste

For the removal of waste of product, it is necessary to follow the valid local environmental regulations. Waste classification: 17 03 02 bituminous mixtures other than those mentioned in 17 03 01.



The product is in conformity with **EN 13969:2004/A1:2006 type A and T** and **EN 13970:2004/A1:2006**.

The system of quality and handling of the environment is conforming with EN ISO 9001 and EN ISO 14001.