

TECHNICAL SHEET

IZOELAST T4 plus

Waterproofing membrane with a glass fabric reinforcement and with elastomere modified bitumen

Product description IZOELAST T4 plus is a waterproofing membrane made from a glass fabric 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 IZOELAST T4 plus meets the demands of the standards EN 13707, 13969 type A and type T. Because of its excellent flexibility at low temperatures, it shows excellent characteristics at installation and deformations, and excellently bridges cracks also at very low temperatures. The glass fabric reinforcement gives high resistance to static and dynamic strains.

Characteristic	EN Method	Unit	Value
Reinforcement	Glass fabric		
Surface protection	Polymeric sheeting / Polymeric sheeting		
Length	1848-1	m	≥ 10
Width	1848-1	m	≥ 1
Straightness	1848-1	20 mm/10m	pass
Thickness	1849-1	mm	≥ 3,6
Watertightness	1928	kPa	≥ 100
Durability of water tightness against artificial ageing (12 weeks at 70 ° C)	1296/1928	kPa	≥ 100
Flexibility at low temperature	1109	°C	≤ -15
Flow resistance at elevated temperature	1110	°C	≥ 100
Resistance to tearing	12310-1	N	≥ 300
• longitudinal			≥ 200
• transversal			
Shear resistance of joints	12317-1	N/50 mm	≥ 1000
• longitudinal			≥ 1500
• transversal			
Dimensional stability	1107-1	%	* NPD
• longitudinal			* NPD
• transversal			
Water vapor properties "μ"	1931	/	* NPD
Chemical resistance	1847/13707 Annex C	-	pass
Reaction to fire	13501-1	Class	E
External fire performance	13501-5	Class	F _{ROOF}
Resistance to static loading	12730/A	kg	≥ 10
Resistance to static loading	12730/B	kg	≥ 5
Resistance to impact	12691/A	mm	≥ 1000
Resistance to impact	12691/B	mm	≥ 1500
Tensile properties	12311-1	N/50mm	≥ 1000
• longitudinal			≥ 1500
• transversal			
Elongation	12311-1	%/50mm	≥ 2,0
• longitudinal			≥ 2,0
• transversal			
Resistance to root penetration	13948	-	* NPD
Flexibility at low temperature after artificial ageing by long term exposure to elevated temperature (12 weeks at 70 ° C)	1296/1109	°C	* NPD
Flow resistance at elevated temperature after artificial ageing by long term exposure to elevated temperature (12 weeks at 70 ° C)	1296/1110	°C	* NPD
Content of dangerous substances	Annex ZA	/	no

* NPD – no performance determined

Use and installation

IZOELAST T4 plus is used regarding the demands of the standards as an intermediate layer in two or more layered flat roof systems which are protected by a UV-resistant membrane or as protection layer in roofing systems under heavy protection. It is also used in single-layer waterproofing systems against dampness and in double-layered horizontal and vertical waterproofing systems exposed to pressurized water (hydrostatic pressure). It is installed with welding process with a flame (gas) burner, over the entire surface. The joints are carried out with 10 cm overlaps and must be watertight. The membrane can also be installed by mechanical fastening.

Storage

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.

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 13707:2004+A2:2009**, **EN 13969:2004** and **EN 13969:2004/A1:2006 Type A and Type T**.

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