

# TECHNICAL SHEET

## IZOTEKT REFLEX V45

### Waterproofing membrane with a glass fleece reinforcement and with plastomere modified bitumen

**Product description** IZOTEKT REFLEX V45 is a waterproofing membrane made from a glass fleece reinforcement that is coated on both sides with plastomere modified bitumen. The membrane is on the upper side protected by mineral granules with 10 cm selvedge overlap without granules. Bottom side of membrane is protected by polymeric sheeting.

**Characteristics of the product** IZOTEKT REFLEX V45 meets the demands of the standard EN 13707. The additions of plastomere polymers to bitumen and the surface protection of membrane by mineral granules give to membrane high resistance against ageing, UV-light and higher temperature, and flexibility at low temperatures.

Characteristic	EN Method	Unit	Value
Reinforcement	Glass fleece		
Surface protection	mineral granules / polymeric sheeting		
Length	1848-1	m	≥ 10
Width	1848-1	m	≥ 1
Straightness	1848-1	20mm/10m	pass
Mass per unit area	1849-1	kg/m <sup>2</sup>	≥ 4,5
Water tightness	1928	kPa	≥ 100
Flexibility at low temperature	1109	°C	≤ -5
Flow resistance at elevated temperature	1110	°C	≥ 100
Resistance to tearing <ul style="list-style-type: none"> <li>longitudinal,</li> <li>transversal</li> </ul>	12310-1	N	> 50 > 50
Shear resistance of joints <ul style="list-style-type: none"> <li>longitudinal</li> <li>transversal</li> </ul>	12317-1	N/50 mm	> 300 > 200
Dimensional stability <ul style="list-style-type: none"> <li>Longitudinal, transversal</li> </ul>	1107-1	%	* NPD * NPD
External fire performance	13501-5	Class	F <sub>ROOF</sub>
Reaction to fire	13501-1	Class	E
Chemical resistance	1847/13707 Annex C	-	pass
Resistance to static loading	12730/A	kg	> 2
Resistance to impact	12691	mm	> 500
Tensile properties <ul style="list-style-type: none"> <li>longitudinal</li> <li>transversal</li> </ul>	12311-1	N/50mm	≥ 300 ≥ 200
Elongation <ul style="list-style-type: none"> <li>longitudinal</li> <li>transversal</li> </ul>	12311-1	%/50mm	≥ 2,0 ≥ 2,0
Resistance to root penetration	13948	-	* NPD
Flexibility at low temperature after artificial aging by long term exposure to elevated temperature (12 weeks at 70°C)	1296/1109	°C	≤ +4
Flow resistance at elevated temperature after artificial aging by long term exposure to elevated temperature (12 weeks at 70°C)	1296/1110	°C	≥ 100
Adhesion of granules	12039	%	≤ 30
Content of dangerous substances	Annex ZA	/	does not contain

\* NPD – no performance determined

**Use and installation** IZOTEKT REFLEX V45 is used in three-layer systems of flat roofs as top layer, which protects against aging and UV light. It can be used as additional protection against moisture in the system of Spanish tile roofs on a concrete base. The membrane is installed by torching with a 10 cm overlapping.

**Storage and transport** The rolls have to 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 13707:2004+A2:2009**.

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