Technical data sheet

DELTA®-RADONSTOP ULTRA

Multi-layer sealing membrane for protection against radon gas and methane as well as against soil moisture and non-pressing water in ground slabs.



Characteristics	Method	Values/description
Description		
Application	–	Sealing against radon gas, methane as well as soil moisture and non-pressing water. Installation either on ground slab or rigid thermal insulation and directly covered with screed or between ground slab and thermal insulation. Intended use Typ A according to EN 13967.
Material	–	Composite of PE film, PP scrim and PE/aluminium layer. With integrated self-adhesive edges.
Mass per unit area	EN 1849-2	approx. 350 g/m²
Thickness	EN 1849-2	approx. 600 µm
Straightness	EN 1848-2	< 75 mm to 10 m length
Properties for impermeability		
Watertightness	EN 1928, method A	passed (2 kPa/24 h)
Durability against artificial ageing	EN 1296, EN 1928	passed
Durability against alkali	EN 1847, EN 1928	passed
Water vapour permeability (S_d)	EN 1931	> 1,500 m
Radon diffusion coefficient	–	$1.4 \cdot 10^{-13}$ m²/s
Methane permeability	–	$4.3 \cdot 10^{-14}$ kg m/s
Mechanical properties		
Resistance to impact	EN 12691, method A	≥ 300 mm
Resistance to folding at low temperatures	EN 495-5	up to -45 °C
Tensile strength MD	EN 12311-2	≥ 530 N/5 cm
Tensile strength CMD	EN 12311-2	≥ 450 N/5 cm
Elongation at maximum tensile strength MD	EN 12311-2	≥ 17 %
Elongation at maximum tensile strength CMD	EN 12311-2	≥ 18 %
Resistance to tearing (nail shank) MD	EN 12310-1	≥ 470 N
Resistance to tearing (nail shank) CMD	EN 12310-1	≥ 520 N
Resistance to static load	EN 12730, method A	no perforation at 20 kg for 24 h
Miscellaneous		
Reaction to fire	EN ISO 11925-2	Class E according to EN 13501-1
Temperature resistance	–	-30 to +80 °C
Dimension	–	40 × 1.50 m
Weight per roll	–	approx. 21.0 kg
Packaging unit	–	24 Rolls/pallet
CE-conformity	–	EN 13967

Accessories

- **DELTA®-THENE-BAND, DELTA-MULTI-BAND® M 100, DELTA-MULTI-BAND® FLEXX 100** for overlappings of membranes
- **DELTA®-TILAXX ULTRA, DELTA®-THAN** for linear connections to rising construction parts
- **DELTA®-FLEXX-BAND FG 80 / FG 150** for sealing of electric sockets and cable/pipe penetrations
- **DELTA®-THENE ECKEN (prefabricated moulded parts), DELTA®-FLEXX-BAND FG 150** for sealing of inside and outside corners
- **DELTA®-PROTEKT** for cross section waterproofing in and under walls

The content of this data sheet describes the current state of knowledge at the time of publication and make no claim to be complete. The information listed does not release from self-dependent behaviour. With publication of this sheet all previous versions are not valid any longer. Errors and typing errors reserved.

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