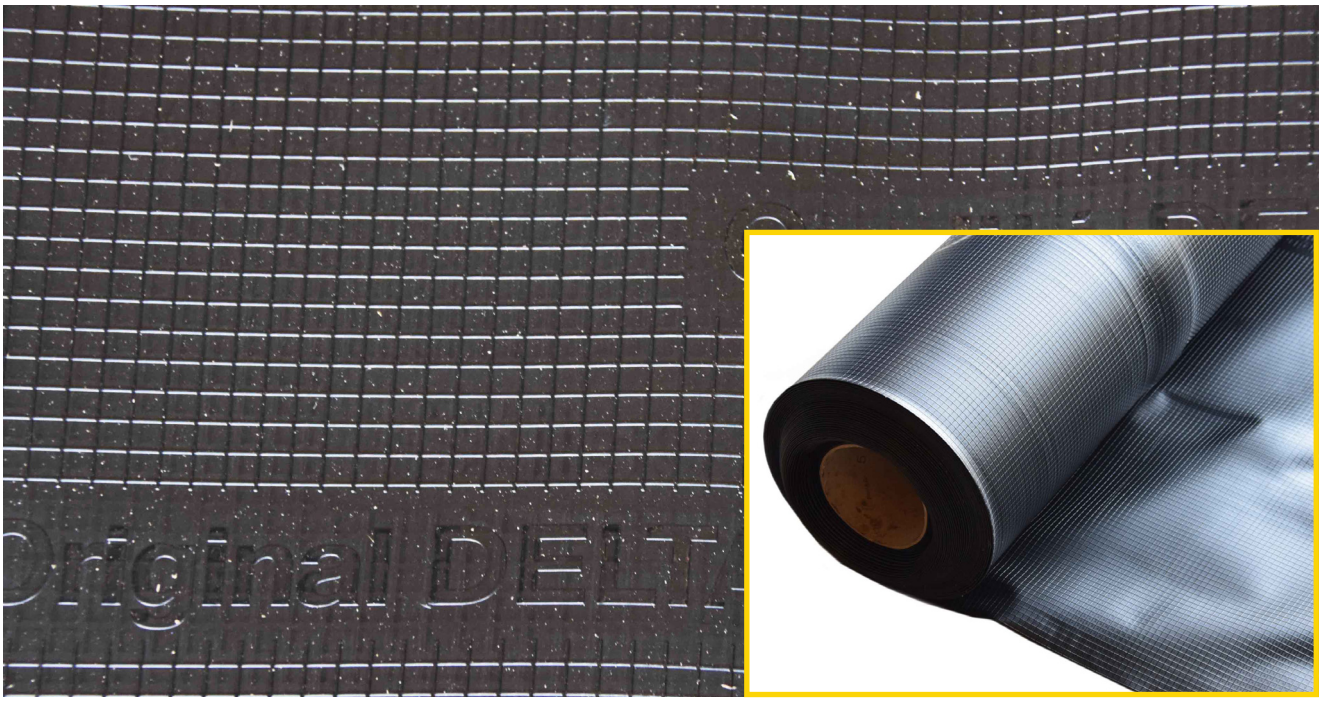
PRODUCT DATA SHEET

Delta Radonsperre



Description

Delta Radonsperre provides permanent protection from Radon (RN) Gas whilst forming a protection layer against rising damp.

Radon is a colourless, odourless, radioactive gas that comes from rocks and soil. Radon levels are higher inside buildings compared to outside, and exposure to the gas over an extended period of time can be harmful to occupants.

Delta Radonsperre has an anti-slip profile on both sides which stabilises the sheet and optimises adhesion to mortars.

Features

- Resistant to Radon ground gas
- Extremely durable and tear-resistant
- Special polyolefin blend forming a sheet approx. 0.7 mm thick
- Flexible and easy to install
- Resistant to extreme temperatures
- UV-stabilized
- Long-term protection
- Resistant to chemicals, root penetration, rotproof

Associated Products

- Delta Cornerstrip
- Delta Sealing Tape
- Delta Sealing Rope
- Gas Tape 50
- Gas Over Tape 150
- Delta LM 800

Product Details

DMS 119

Fields of Application

- Suitable for use on sites with radon gas
- Protects against moisture, acting as a damp-proof membrane (DPM)s
- Suitable for horizontal applications
- For foundations and building walls

Specification

- D21/350 Gas-retardant membrane
- F30/360 Gas-resistant damp-proof courses/cavity trays
- F30/54 Gas-resistant dpcs/cavity trays
- J40/140 Loose-laid plastics or rubber sheet gas-retardant membranes
- J40/35 Loose-laid plastics or rubber gas-retardant membranes
- Q37/320 Root barrier
- Q37/355 Combined layers
- Pr_25_57_65_60
- BRE 211 – 2023-Radon – Protective measures for new buildings.

GROUND GAS PROTECTION

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Technical Data

Delta Radonsperre			
Characteristics	**Methods**	**Values**	**Units**
Application	-	Plastic damp proof course and gas barrier for building constructions against rising humidity, gas like radon or methane etc.	-
Material	-	LDPE	-
Colour	-	Black	-
Surfaces	-	Both faces features a non-slip profile to ensure also optimum mortar adhesion.	-
Properties	-	Bitumen compatible, root-proof and UV-stabilized. Highly flexible even at low temperatures, so that no cracks will occur in the material. Being relatively thin, strips will come off the roll quickly and are easy to work with.	-
Weight	EN 1849-2	Approx. 280	g/m^2
Thickness	EN 1849-2	Approx. 0.4	mm

Transmission Properties	**Methods**	**Values**	**Units**
Sd-value	EN ISO 12572	95	m
Water Vapour Transmission	-	$2.05 . 10^{-12}$	$kg/m^2.s.Pa$
Resistance Against Water Vapour Diffusion μ	-	185.000	-
Radon Permeability k	-	$20. 10^{-12}$	m^2/s
Radon Transmittance	-	$50. 10^{9}$	m/s
Radon Flow Rate P	-	Approx. 0.0025	$Bq/(m^2.s)$

Mechanical Properties	**Methods**	**Values**	**Units**
Tensile Strength MD/CD	EN 12311-1	Approx. 250/160 (±10%)	N/5 cm
Resistance to Tearing MD/CD	EN 12310-1	> 80 / 80 N	N
Water Column	-	4 m, 72 hours	-
Watertightness	EN 1928	Watertight (2 kPa / 24 hours)	-
Watertightness after artificial ageing by longterm exposure to elevated temperature	EN 1928 EN 1296	Watertight (2 kPa / 24 hours), ageing 12 weeks 70°C	-
Watertightness after exposure in alkaline environment	EN 1928 EN 14909	Passed	-
Resistance to folding at low temperatures	EN 495-5	≤ -20	°C
Resistance to Impact	EN 12691	≥ 150	mm

Delta Radonsperre

Technical Data

Delta Radonsperre			
Other Properties	Methods	Values	Units
Reaction to Fire	EN 13501-1	E	-
Temperature Range	-	-30 à +80	°C
CE Conformity	EN 14909	Yes	-
Roll Dimension	-	4 x 25	m

Packaging/Handling

- Supplied in 4m x 25m rolls

Storage

- Delta Radonsperre is UV Stable
- Store safely and keep out of reach of children
- Always store and transport in a secure upright position

Guarantees

Delta Membrane Systems Limited offer a 30-year Product Guarantee on membranes, seals and fixings when a Delta Gas Protection System has been installed by a Delta Registered Installer.

A list of experienced Delta Registered Installers is available from Delta's offices.

Installation

Please refer to Delta's Installation Guides. Installation Guides can be found at www.deltamembranes.com/technical/delta-installation-guides/. We have a number of "How to" subject related video guides available on your Youtube Channel and Website. Please visit www.deltamembranes.com/technical-categories/the-video-suite/

Durability

Subject to normal conditions, Delta Radonsperre will provide an effective barrier to Radon Ground Gases for the life of the building.

Safety

Always follow the instructions provided in the material safety data sheet and take the precaution described there. Wear appropriate Protective Personal Equipment (PPE) when applying and using the material. Observe all governmental, state, and local safety regulations when processing the material.

NBS Source

Other Information

All data and information contained in these Product/Technical Data Sheets is up-to-date and correct as at the date of issue. The information given is suggested as guidance and should only be used for evaluating your specific application. Delta Membrane Systems Limited cannot control or anticipate the conditions under which this product may be used, each user should review the information in specific context of the planned use. The information contained in these Product/Technical Data Sheets should not be considered a warranty, expressed, or implied, including but not limited to a warranty of merchantability or fitness for a particular purpose. In no event shall Delta Membrane Systems Limited be liable for any incidental or consequential damages resulting from the use, misuse, or inability to use the product. This exclusion applies regardless of whether such damages are sought based on breach of warranty, breach of contract, negligence, strict liability in tort, or any other legal theory. When in doubt, contact Delta's Technical Team on 01992 523 523.