





# MONARFLEX® RMB400

## – a simple yet effective radon barrier



### Four good reasons to choose MONARFLEX® RMB400 membrane:

-  Radon is a serious and deadly health risk
-  Flexible and easy to install
-  Enhanced technical properties due to the composition of the multi-layer product
-  Design of the membrane is built on years of experience with the radon issue

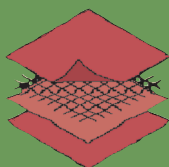
*MONARFLEX® Radon membrane  
– the reliable choice*

# Technical data

Available sizes	2 x 25M
	4 x 25M
Net weight	409 g/m <sup>2</sup>
Thickness	400 µm
Roll weight	2 x 25M – 22,5 kg
	4 x 25M – 44,9 kg
Tensile strength	15 kN/m
Tear resistance	> 400 N
Elongation	15 to 30%
Moisture vapour transmission	< 0,3 g/m <sup>2</sup> /24hr
Water vapour resistance	> 1025 MNs/g
Radon transmittance	< 20 (10 <sup>-9</sup> m/s)
Radon permeability	< 10 (10 <sup>-12</sup> m <sup>2</sup> /s)

## Composition:

MONARFLEX® RMB400 radon membrane consists of 3 layers of blown virgin polyethylene (LDPE) film around a reinforced polyester scrim. The scrim and the 2 layers are laminated together by an extra coater-layer. The special composition and properties of each layer make a tight and effective barrier to prevent radon from entering houses and buildings to constitute a health hazard for the inhabitants.



## What is Radon

Radon is a naturally occurring radioactive gas deriving from the decay of uranium and entering buildings and houses from the underlying ground. High concentrations of radon can be built up in houses and constitute a health hazard to the inhabitants of the house. Radon is known to be the 2nd largest cause of lung cancer!

## A mechanical barrier

The most efficient and cost effective way of reducing the radon level in a house or building is to install a mechanical barrier covering the entire area of the house in contact with the soil. Furthermore, improvement of the ventilation in the building is necessary. The mechanical barrier will prevent radon from entering the house and the improved ventilation will prevent build-up of gas under the house.

Monarflex® RMB400 is a strong, tight and durable membrane developed especially to meet the high requirements for radon protection. The reinforcement scrim adds enhanced strength properties to the product which are necessary to keep a gastight barrier for years and to prevent puncture of the membrane when installing. Monarflex® RMB400 also acts as a damp proof membrane against moisture from the ground.

## Monarflex Radon System

A mechanical barrier alone will in certain cases not be enough. An active ventilation system under the building can also be applied. An active ventilation system could consist of a Radon Easi-Sump to create a depressurisation. The Monarflex product range contains accessories to form a complete and dependable protective system:

- Radon Easi-sump for ventilation
- Pre-pressed Top Hats for pipe penetrations
- Double-sided butyl tape for overlapping and sealing

## Installation

Installation must be done by professionals to ensure a tight and effective protective system. Please contact us for further details

## Test

Monarflex® RMB400 membrane conforms to the requirements of:

- Building Regulations 1997 to 2002 from Irish Agrément Board – Certificate no. 04/0075
- NBI Teknisk Godkjenning no. 2397 (Norway)



Please visit [www.monarflex.com](http://www.monarflex.com) for further information