



# Monarflex RAC Membrane

## Technical Data Sheet

### Features

**Monarflex® RAC** is part of Icopal's Monarflex® gas control systems and may be used loose-laid with ground supported or suspended slabs, and is satisfactory for use as a damp proof membrane, and when properly sealed and detailed it will provide an effective barrier to the passage of methane, radon, air and moisture from the underlying soil. It is also suitable for dealing with volatile organic compounds (VOCs).

**Monarflex® RAC** is manufactured from four layers of virgin low-density polyethylene (LDPE) with a 12 x 12mm multi-filament polyester (1670 dtex) reinforcing grid between to give high strength and tear resistance. The membrane also incorporates a 12 µm aluminium foil for low permeability to gases. The top surface is grey-coloured and ribbed, while the underside is grey with a smooth finish

### Durability

**Monarflex® RAC** is manufactured to last the lifetime of the construction provided it is correctly installed and not damaged by subsequent building operations.

### Application

**Monarflex® RAC** may be laid over or under the concrete slab. When laid below slab Monarflex® RAC should be placed on top of a gas permeable layer, such as hardcore blinded with well compacted sand. When placed above slab, the concrete should be dense, smooth and free from any projections which may damage the membrane. Monarflex® RAC should then be covered with a screed or other suitable protective layer. Membranes should be installed in accordance with the manufacturer's guidelines.

Product Name	Monarflex RAC Membrane		
	Roll Size	KG	Product Code
Product Range	2 x 25m	40kg	13902
	2 x 50m	80kg	13903
	2 x 100m	160kg	13904
Durability	High		
Material	Upper: Grey LDPE with UV stabilisers Barrier Layer: 12 micron aluminium film Lower: Grey LDPE film with UV stabilisers		
Colour	Grey		
Reinforcement Grid	12 mm x 12 mm grid of multifilament polyester 1670 dtex		
Gross Weight	800g/m <sup>2</sup> (EN1849-2)		
Thickness	0.8mm (EN1849-2)		
Tensile Strength	MD: >800N/50mm TD: >800N/50mm (EN12311-1)		
Nail Tear Strength	>600N (EN12310-1)		
Impact to Static Loading	Pass @ 200N (EN12730(B))		
Impact Resistance	<250mm (EN12691(A))		
Water Vapour Transmission	6.18 x 10 <sup>-14</sup> (m <sup>2</sup> .s.Pa)/kg (EN1931)		
Equivalent Air Thickness	Sd=>1500m (EN1931)		
Methane Gas Transmission	<0.005cm <sup>3</sup> /hm <sup>2</sup> atm (Dti Internal Test)		
Fire Properties	EN13501-1 Class F		

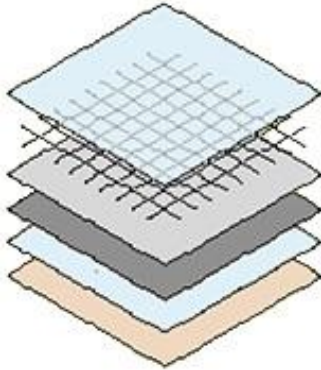
## Health and Safety

### Monarflex RAC Membrane

Health and safety data sheets are available for all materials. Please go to [monarflex.com.au](http://monarflex.com.au) for more information.

## Quality Assurance

Monarflex® RAC membranes are supplied under a Quality Management System approved to ISO 9001: 2000 by BSI Quality Assurance.



<b>Top Layer</b>	LDPE with stabilizers, Grey
<b>Reinforcement</b>	12x12mm Polyester multifilament 1670 dtex
<b>Coater Layer</b>	LDPE with stabilizers
<b>Aluminium</b>	12 micron Aluminium layer
<b>Coater Layer</b>	LDPE with stabilizers
<b>Bottom Layer</b>	LDPE with stabilizers, Grey

