

ATAL GOUNDSIL RB

TECHNICAL DATASHEET

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Structural Waterproofing Systems

INTRODUCTION

Atal Groundsil RB is manufactured blown polythene, monolayer film produced from virgin polymer. Atal Groundsil RB radon resisting membrane is a passive control system. For full radon protection, the system should incorporate an underfloor ventilated sump or sumps, which can be subsequently converted to an active system using suitable ventilation fans. Atal Groundsil RB radon resisting membrane, when installed per the BRE and NHBC recommendations, also acts as a damp proof membrane to protect the building against the ingress of moisture from the ground. Atal Groundsil RB complies with NHBC Recommendations and CIRIA C665.

FEATURES

- Suitable for use as a radon gas barrier and a damp proof membrane.
- Independently tested for radon gas resistance.
- Produced from high-quality polymers
- Robust with high resistance to puncture.

Atal Groundsil RB is a safe solution to prevent the ingress of radon gas when used in the construction of buildings and dwellings. Radon barriers provide significant protection and are relatively cheap to install in new buildings, being, in effect, an enhanced gas-tight DPM. They are also much more affordable and less intrusive than radon remedial measures used for existing buildings. Therefore, it is prudent to provide them where there is any reasonable indication that a site has enhanced radon potential. Building regulations require that proper precautions are taken to prevent danger to health and safety when building on gas contaminated land. When installed per the BRE report 211 "Guidance on protective measures for new buildings" (supports building regulations approved document C2 (2004), (also approved document L 2007) Atal Groundsil RB is an effective solution to the problem.

STORAGE ON SITE

Atal Groundsil RB Radon Gas Barrier is not recommended for use when exposed to sunlight and general outdoor weather conditions for long periods. Weathering will not occur when installing to code of practice CP102 1973. Rolls should be stored undercover and on a flat level surface.

HANDLING ON-SITE

Quality control during the laying of the membrane is essential. The membrane should be protected either through temporary boarding over its whole area or the immediate laying of a floor screed. A high standard of workmanship is required if radon protective measures are to prove successful. Regular supervision and checking are essential. There is no room for an 'out of sight, out of mind' philosophy as subsequent radon measurements will show any failures. While there is no statutory requirement to inspect the barrier, BRE strongly recommends inspection of the membrane before covering.

INSTALLATION

Install Atal Groundsil RB Radon Gas Barrier system per the Building Research establishment BRE No. 211 "Guidance on protective measures for new buildings" (supports building regulations approved document C2 (2004), (also approved document L 2007). Atal Groundsil RB is suitable for most common floor constructions. It is installed similarly to damp proof membranes but with much greater attention to joint sealing of the gas resisting membrane under wall sealing and workmanship. The membrane will also perform the same function as a damp proof membrane. Do not use Atal Groundsil RB where there is a risk of hydrostatic pressure. Lay Atal Groundsil RB on a smooth surface or sand blinding to prevent the membrane from puncture.



<i>Characteristics</i>	<i>Value</i>
Thickness	400µm / 1600 gauge
Width	4m
Length	20m
Colours	Green
Radon Permeability (10^{-12} m ² /s)	6
Radon Transmittance (10^{-9} m/s ⁻¹)	5
Water Vapour Transmittance (g/m ² /day)	0.29
Tear Strength (Nail) (N)	>118

PROTECTING THE MEMBRANE AFTER INSTALLATION

Atal Groundsil RB should be protected as soon as possible once installed using Atal Radbar Protection Board or a 50mm screed. Take care when applying screed so as not to cause stretching, puncture or displacement of the membrane.

JOINTING OF MEMBRANE

1A - Unroll the first membrane, ensure the surface is dry and free from dust or grease. Inspect the membrane to ensure that there are no indentations or protrusions. If there are, remove and apply sand blinding.

2A - Apply Atal DS Butyl Tape to the membrane, 50mm from the edge. The membrane must be dry and free from dust and dirt.

3A - Unroll the second membrane overlapping the first membrane by 150mm. Remove the protective paper from the Atal DS Butyl Tape and apply pressure to the membrane using a hand roller while joining the two membranes together.

4A - Seal the two membranes by installing Atal Overlap Tape (Grey).

SERVICE ENTRY POINTS

All service entry points must have airtight seals. Seal using either Atal Premsil GMA or Atal Top Hats.

For further information and sales, please get in touch with your Atal UK office as listed below. Atal UK products are guaranteed against defective materials and manufacture. Products are sold subject to the Atal UK Terms and Conditions of Sale, copies of which are forwarded on the invoice and are available on request. Atal UK endeavours to ensure that the above data and any further advice is correct; however, it cannot accept any direct or indirect liability for the use of its products as such usage is beyond its control.

<i>Characteristics</i>	<i>Values</i>
Mass per unit area (g·m ⁻²)	368
Tensile strength (N per 50 mm)	
MD	≥150
CD	≥150
Elongation	
MD	>450
CD	>450
Nail tear resistance	
MD	247
CD	238