

ATAL RADBAR 300

BBA Certified as Radbar Gas Membrane Cert No. 96/3267

INTRODUCTION

Atal Radbar 300 is a manufactured blown polythene, mono layer film produced from virgin polymer. Atal Radbar 300 radon resisting membrane is a passive control system. The Atal Radbar 300 Radon Protection System consists of a membrane extending the whole of the floor and walls. The system should incorporate an under floor ventilated sump or sumps, which can be subsequently converted to an active system by use of suitable ventilation fans. Atal Radbar 300 radon resisting membrane when installed in accordance with the BRE and NHBC recommendations, will also act as a damp proof membrane to protect the building against the ingress of moisture from the ground. Certified by the British Board Of Agreement and the Irish Agreement Board. Atal Radbar 300 complies with NHBC Recommendations and CIRIA C665.

- Suitable for use as a Radon Gas Barrier and a Damp Proof Membrane.
- Atal Radbar 300 has been independently tested for Radon Gas Resistance.
- Atal Radbar 300 is produced from high quality polymers, is very robust and has a high resistance to puncture.

APPLICATION

Atal Radbar 300 Radon Gas Barrier 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 cheaper and less intrusive than radon remedial measures used for existing buildings. It is therefore prudent to provide them where there is any reasonable indication that a site has enhanced radon potential. In addition, someone purchasing a new property will expect their new building to be protected against radon if it is in an area at risk. Providing protection in borderline cases reduces the need to explain why measures have been omitted. The building regulations require that proper precautions be taken to prevent danger to health and safety when building on gas contaminated land. When installed in accordance with the BRE report 211 "Guidance on protective measures for new buildings" (supports building regulations approved document C2 (2004), (also approved document L 2007) Atal Radbar 300 is an effective solution to the problem and can be laid with confidence.



STORAGE ON SITE

Atal Radbar 300 Radon Gas Barrier is not recommended for use when exposed to sunlight and general outdoor weather conditions for long periods of time. Weathering will not occur when installed with 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 extremely important. The membrane should be protected either through the use of 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 is essential. There is no room for an 'out of sight, out of mind' philosophy as subsequent radon measurement will show up any

failures. While there is no statutory requirement to inspect the barrier, BRE strongly recommends that an inspection is carried out before covering up.

INSTALLATION

Atal Radbar 300 Radon Gas Barrier system must be laid in accordance with 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 Radbar 300 Radon Gas Barrier can be used in most common floor constructions. It is installed in a similar way 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. Where there is risk of hydrostatic pressure this product is not intended for use. Atal Radbar 300 Radon Gas Barrier should be laid on a smooth surface or sand blinding to prevent the membrane from puncture. The membrane must be free from grease and dirt.

PROTECTING THE MEMBRANE AFTER INSTALLATION

Atal Radbar 300 Radon gas barrier should be protected as soon as possible once installed. A minimum thickness of 50mm screed is recommended. Care should be taken when the screed is applied not to cause stretching, puncture or displacement of the membrane.

JOINTING RADBAR 300MM RADON GAS BARRIER

Sheets must be clean and free from dirt and grease before application of Atal Radbar 300 double sided gas tape, and in view of the difficulty of achieving gas tight

seals under wet or dirty conditions it is recommended that special care is taken with this aspect of the installation.

Unroll one width of the membrane after determining the most effective method of covering the area. Apply the Atal Radbar 300 double sided gas tape about 50mm from the edge, leaving the backing paper on. Lay the next width of membrane overlapping the first by 150mm. Remove the backing paper from the Atal Radbar 300 double sided gas tape and join the top sheet to the bottom sheet by applying pressure with a hand roller. Where the membranes overlap apply the 75mm single sided tape, equidistant on both membranes.

All service entry points must have airtight seals. Top hats and corner pre-forms must be sealed using Atal Radbar 300 Double sided gas tape. (As in figure 1).

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 Radbar 300 Double Sided Tape to the membrane, 50mm from the edge. It is very important that the membrane is dry and free from dust and dirt.

3A - The second membrane must be unrolled overlapping the first membrane by 150mm.

Remove the protective paper from the Atal Radbar 300 Double Sided Tape and apply pressure to the membrane while joining the two membranes together.

4A - Seal the two membranes by installing Atal Radbar 300 Single Sided