

# 1600 Gauge Radon Barrier

## Product Description

Is a virgin grade polythene material suitable for use as a loose laid Radon gas barrier and damp proof membrane. The material has a thickness of 400 microns and is manufactured to comply with BR211 and current UK Building Regulations for Radon protection. Suitable for both taped or welded installations, meets EN 13967 as a damp proof membrane and is UKCA approved.

## Features

- Meets EN 13967 for use as a DPM Flexible and conformable
- UKCA approved
- BR 211 compliant
- Virgin grade polythene, no recycled content
- Suitable for both taped or welded installations
- Install as per guidance within BR211

## Typical Applications

- Radon gas barrier
- Damp proof membrane

	Value
Material	Virgin grade polythene
Roll Width	4m
Roll Length	20m
Roll Weight	29kg
Thickness	1600 gauge / 400 microns
Randon permeability	$6 \cdot 10^{-12} \text{ m}^2/\text{s}$
Randon transmittance	$5 \cdot 10^{-9} \text{ m/s}^{-1}$
Water vapour transmittance	0.29 g/m <sup>2</sup> /day
Tear strength	>118 N

## Installation Guidance – Taped System:

When installing as a taped system, the membrane should be installed using Novia® Double-Sided Butyl Tape (50mm width) and a single-sided lap tape, either Novia® Aluminium Foil Tape or Novia® Metallised BOPP Tape. This is to ensure a complete gas seal is maintained throughout the life of the product. It is very important that the product is not damaged during installation, and that all breaks or damage to the membrane, intentional or otherwise, are fully sealed. Novia® 1600g Radon Barrier should, in general, be installed in accordance with BR211 guidance. To correctly install the radon barrier at all joints, ensure the surface is dry and dust free before unrolling the first length of membrane (figure 1). Once the membrane is flat, apply the double-sided butyl tape (50mm width) approximately 50mm from the edge (figure 2), and temporarily leave the backing paper on. Prepare the second length of radon barrier by once again ensuring the surface underneath is dry and dust free. Then lay the second length of membrane

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with a 150mm overlap on to the first length of membrane. Join them together by unpeeling the backing paper of the double-sided butyl tape (figure 3). It is recommended to apply firm pressure along all joints to form a strong sealing bond. Where the two membranes overlap, the excess membrane needs to be stuck firmly in place using a single-sided lap tape. Apply this tape equidistant over the two membranes and apply firm pressure to complete the seal.

Figure 1



Figure 2



Figure 3

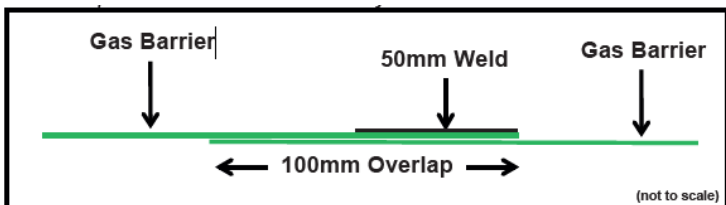


All other edges and entry point, such as top hats, must be sealed in the same manner. Ensuring all joints are sealed correctly and tightly will maintain the effectiveness of the membrane. Once installation is completed, the radom barrier should be protected as soon as possible. There is a minimum thickness of 50mm screed recommended.

## Installation Guidance – Welded System

Novia® 1600g Radon Barrier should be installed in accordance with BR211 guidance. When installing the membrane, welding should be undertaken by competent and experienced operatives. Tests should be undertaken prior to welding, to ensure the correct temperature and speed is achieved. Ambient temperature and the condition of the equipment used can influence the weld temperature settings and speed. Novia® 1600g Radon Barrier should weld between 180 - 230°C and 2-3m per minute. The joint to be welded should be overlapped by 100mm as a minimum, with a 50mm wide weld. Welds on gas membranes, such as Novia® 1600g Radon Barrier, are subject to independent verification in accordance with CIRIA C735. This includes joint integrity testing.

*An example installation for welded system*



## Other Notes:

Always handle material carefully to prevent tears and punctures. Repair any on-site damage with Novia® tapes. All Novia® products should be stored horizontally, indoors and out of direct sunlight. External storage must be on a temporary basis. When stored externally, Novia® products should be covered and protected from exposure to weather conditions, especially wind, rain, frost and UV. Pallets should not be stacked.

Please note: The above technical information is given as a guide and is based on recent test data obtained under laboratory conditions. Materials should be fully tested by the end user to establish suitability of the product for the intended application. March 2024

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