

Novia® 1600g Radon Barrier 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 (0.4mm/1600 gauge) and is manufactured to comply with BR 211 and current BS 8485 UK regulations for radon protection. Suitable for both taped or welded installations, the gas barrier meets EN 13967 as a damp proof membrane and is CE approved. **Novia® 1600g Radon Barrier** is a green virgin grade polythene, with no text or images, supplied in a 4m x 20m multifolded roll.



Characteristic	Value	Test Method
Material	Virgin grade polythene	
Roll weight	29.5kg	
Roll width	4m	BS EN 1848-2
Roll length	20m	BS EN 1848-2
Thickness	1600 gauge / 0.4mm	BS EN 1848-2
Radon permeability	21×10^{-9}	SP Method
Radon transmission	8×10^{-12}	SP Method
Water vapour permeability	0.14 g/m ² /day	BS EN 1931
Resistance to tearing MD/CD	250 N / 250 N	BS EN 12310-1

Key Features:

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

For projects that require additional gas protection, we offer **Novia® Methane Pro390**; a premium-specification reinforced polythene multi-laminate Methane gas barrier. See datasheet for more product specific information.

Installation Guidance - Taped System:

When installing as a taped system, the membrane should be installed using Novia sealing tapes: **Novia® Double-Sided Butyl Tape** (50mm width) and our single-sided **Novia® Aluminium Foil 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 BR 211 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 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.

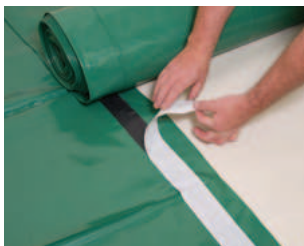
Figure 1



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 complete, the radon barrier should be protected as soon as possible. There is a minimum thickness of 50mm screed recommended.



Use the QR code to link direct to the product webpage.



DS0425_Radon1600

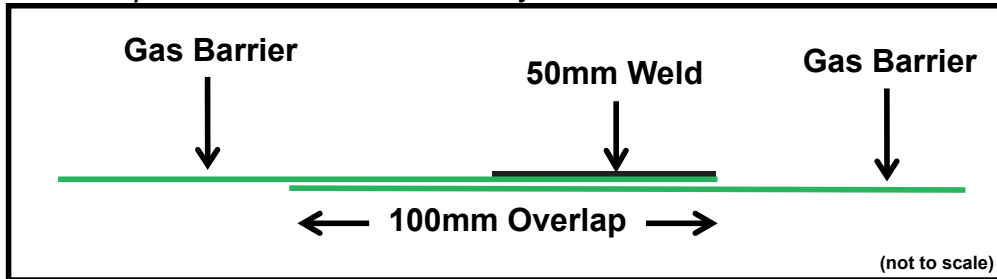
NOTE: COSHH safety datasheets available upon request.

Date Published: April 2025. Novia's most recently published datasheet supercedes any previous versions which may still be in circulation.

Installation Guidance - Welded System:

Novia® 1600g Radon Barrier should be installed in accordance with BR 211 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. The joint to be welded should be overlapped by 100mm as a minimum, with a 50mm wide weld, provided that joint integrity is not compromised. 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.