

**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 and is manufactured to comply with BR211 and current UK Building Regulations for Radon protection. Suitable for both taped or welded installations, **Novia® 1600g Radon Barrier** meets EN 13967 as a damp proof membrane and is UKCA approved.



	Value
Material	Virgin grade polythene
Roll width	4m
Roll length	20m
Roll weight	29kg
Thickness	1600 gauge / 400 microns
Radon permeability	$6 \times 10^{-12} \text{ m}^2/\text{s}$
Radon transmittance	$5 \times 10^{-9} \text{ m/s}^{-1}$
Water vapour transmittance	$0.29 \text{ g/m}^2/\text{day}$
Tear strength nail	>118 N

#### Key Features:

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

For construction projects that require Methane gas protection, we offer **Novia® Methane Pro**. It is a premium-specification reinforced polythene multi-laminate Methane gas barrier, and is BS 8485 compliant. 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 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 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.



DS0124\_Radon1600

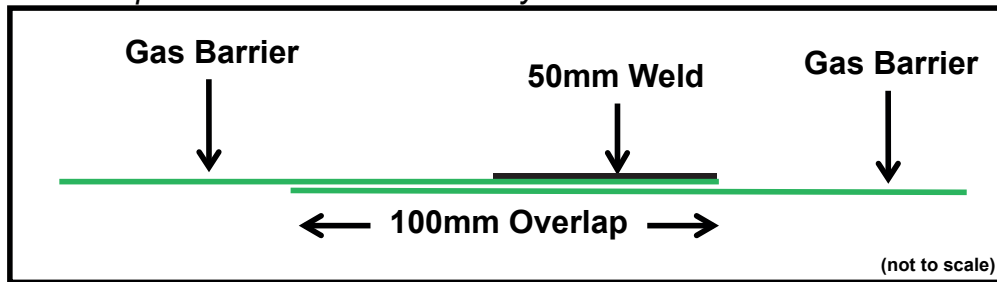
NOTE: COSHH safety datasheets available upon request.

Date Published: January 2024. 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 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:

- Radon sumps and top hats are available upon request, but subject to MOQ and additional lead times.
- 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.