

# Gasgard



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## Product Data Sheet

### Gas Resistant DPC

Gasgard is a high performance gas resistant Damp Proof Course (DPC) which when used in conjunction with Gasseal Damp Proof Membrane (DPM) forms a Gas Resistant Barrier System. The system forms an effective barrier against water and water vapour as well as Methane, Carbon Dioxide and Radon gases.

#### Features and benefits

- BBA approved when used in conjunction with Gasseal DPM as a Gas Resistant Barrier System
- Forms an effective cavity barrier against landfill and naturally occurring underground gases, including Methane, Carbondioxide and Radon
- Acts as barrier against water and water vapour
- Can be heat bonded and sealed

#### INDEPENDENT APPROVAL

Gasgard has been independently approved by the British Board of Agrément as part of Marley Waterproofing Gas Resistant Barrier System (Certificate No 97/3353).

#### DESCRIPTION

Gasgard is composed of an impervious aluminium core, reinforced with hessian and coated with polymer modified bitumen. The product is surfaced on both sides with fine sand to prevent sticking in the roll.

#### ACCESSORIES

##### Gasgard Jointing Strip

A 50mm wide self adhesive tape composed of a polyolefin film backed with a self adhesive bitumen coating, used for reinforcing heat welded joints in Gasgard and for protecting exposed edges of aluminium.

#### COMPATIBILITY

Gasgard is compatible with most materials normally associated with the damp proofing of structures. However it may be softened by some solvent based products and these should not be allowed to come into contact.

Gasgard is fully compatible with Gasseal.

#### APPLICATION

##### Storage

Gasgard must be stored on end, on a level surface, protected from mechanical damage and under cover. To aid unrolling Gasgard at low temperatures, store in a warm place before use.

##### Design

Gasgard is designed to act as both a damp proof course and a gas resistant cavity barrier when used as part of Marley Waterproofing Gas Resistant Barrier System.

Further information on the design of damp proofing and gas resistant barrier systems can be obtained from Technical Services and/or by reference to Marley Waterproofing Damp Proofing Systems Design Guide.

### **Installation**

Installation of Gasgard DPCs must follow normal good practice for the detailing of damp proof courses, as set out in BS 5628-3 and the relevant clauses of BS 8000-3 and BS 8215. Gasgard should be rolled out onto a fresh bed of mortar, sufficiently thick to provide a good base for the DPC, with all the joints in the cavity tray overlapped by a minimum of 100mm and heat sealed.

The upper surface of the joint should then be blackened 25mm either side of the seam using a gas torch and taped with Gasgard Jointing Strip. When forming a Gasgard cavity tray, ensure that it extends beyond the inner face of the internal wall by a minimum of 150mm onto the floor slab.

The Gasgard cavity tray must be lap jointed by a minimum of 150mm with Gasseal, gas resistant DPM. Prior to jointing with the DPM, the upper surface of the Gasgard should be blackened using a gas torch, until the bitumen softens. Position the Gasseal with the backing film removed over the softened Gasgard and roll the joint thoroughly. To prevent corrosion any exposed edges of aluminium must be taped with.

### **Gasgard Jointing Strip**

#### **Site Quality Control**

Regular inspection of the work in progress should be made to ensure that the work is executed to a good standard and in accordance with the specification.

#### **Site Safety**

Guidance given in BS 8000: 1989 and the CDM Regulations: 2007 should be followed. Provision should be made for adequate scaffolding if required to ensure the safety of operators in accordance with health and safety requirements.

### **USES**

Gasgard DPC is for use where the construction conditions necessitate the prevention of Methane, Carbon Dioxide and Radon gases from permeating into the structure of the building and is used in conjunction with Gasseal DPM as a complete gas resistant barrier system.

### **TECHNICAL CHARACTERISTICS**

<b>Characteristics</b>	<b>Units</b>	<b>Gasgard</b>
Methane gas permeability	ml/m <sup>2</sup> /day	0.31
Radon diffusion co-efficient (NRPB)	m <sup>2</sup> /s	<10 <sup>-13</sup>
Carbon dioxide permeability (RAPRA)	N/mm	33.0 / 42.0

## Other products

Full product literature, health & safety and technical sheets are available as downloads from our website [www.ikogroup.co.uk](http://www.ikogroup.co.uk) or on request by email: [marketing@ikogroup.co.uk](mailto:marketing@ikogroup.co.uk)

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