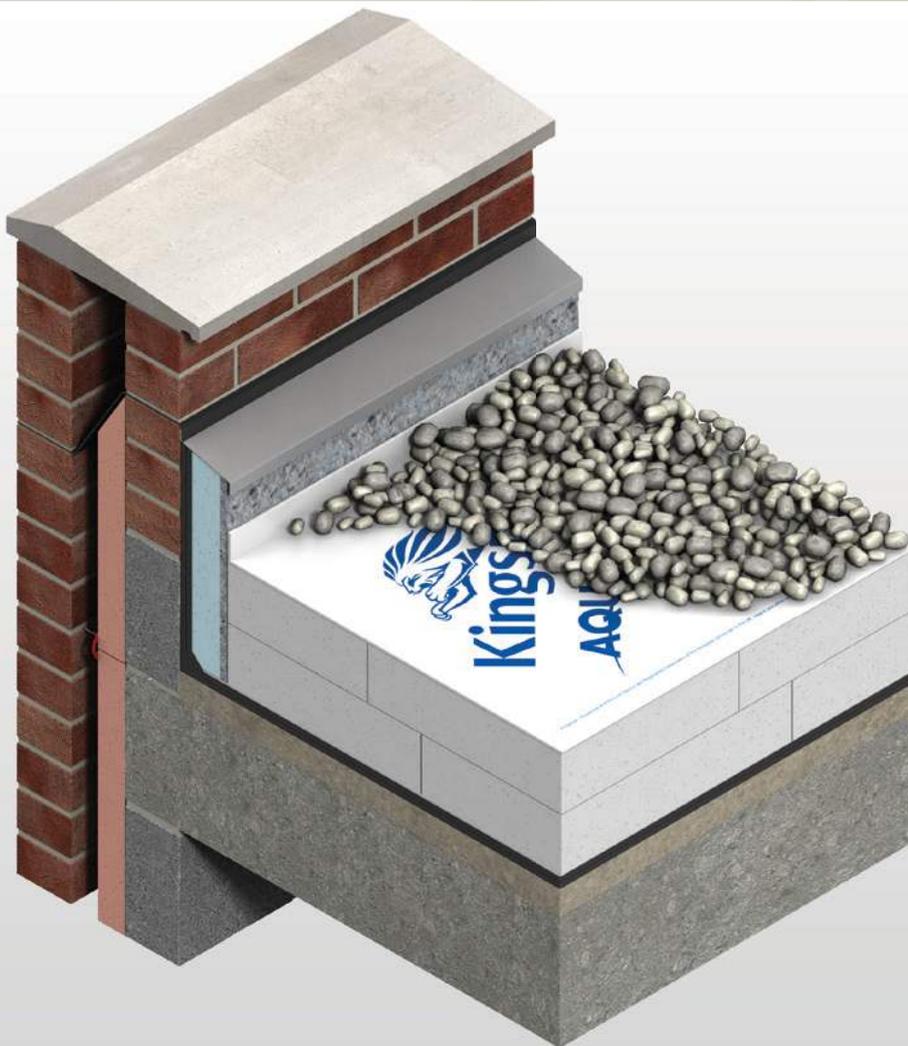




# AQUAZONE®

## WATER-INFILTRATION REDUCTION MEMBRANE FOR INVERTED ROOFS



- Excellent water vapour permeability
- Resistant to the passage of liquid water
- Reduces insulation thicknesses required to achieve specified U-values
- Durable – heat and UV stable
- Lightweight
- Easy to handle and install
- Ideal for new build and refurbishment
- Resists mould and bacterial growth, and does not provide food value to vermin



*Low Energy –  
Low Carbon Buildings*

## Description

*Kingspan AQUAZONE*® is a high performance non-woven polyethylene membrane. It is suitable for use on inverted roofs finished with gravel ballast, green roof systems and concrete pavers on appropriate supports.

*Kingspan AQUAZONE*® can be installed over *Kingspan Styrozone*® insulation on inverted roofs. It can dramatically minimise the cooling effect associated with rainwater flowing down through the insulation and draining away. It can significantly reduce the insulation thicknesses required to achieve specified U-values.

## Application

*Kingspan AQUAZONE*® should be loose-laid over the insulation. Where one run of membrane overlaps another, there should be minimum 300 mm side and end laps. Upper layers of the membrane should be laid over lower layers to ensure water penetration is minimised. At junctions, e.g. upstands, parapets and penetrations, *Kingspan AQUAZONE*® should be turned up to finish above the surface of the ballast layer. *Kingspan AQUAZONE*® should be star-cut and dressed down at drainage outlets. *Kingspan AQUAZONE*® should be turned up at the edges of the roof insulation and sealed under the flashing.

Kingspan Insulation recommends that roofs be designed such that they avoid standing water.

## General

### Resistance to Solvents, Fungi & Rodents

*Kingspan AQUAZONE*® resists attack by mould and fungus growth, and will not encourage insect attack.

### Cutting

Cutting should be carried out using a sharp knife.

### Durability

*Kingspan AQUAZONE*® is UV-resistant and can be safely exposed on site for a period not exceeding 4 months.

### Packaging and Storage

The polyethylene packaging of Kingspan Insulation products, which is recyclable, should not be considered adequate for outdoor protection. Ideally, rolls should be stored inside a building. If, however, outdoor storage cannot be avoided, then the rolls should be stored on their sides, on a clean dry surface, and covered with an opaque polythene sheet or weatherproof tarpaulin.

### Health and Safety

Kingspan Insulation products are chemically inert and safe to use. A Safety Information Data Sheet for this product is available from the Kingspan Insulation website.

## Standards & Approvals

*Kingspan AQUAZONE*® is manufactured to the highest standards under a management system certified to ISO 9001: 2008 (Quality Management Systems. Requirements) and ISO 14001: 2004 (Environmental Management Systems. Requirements).

*Kingspan AQUAZONE*® is covered by BBA Certificate 14/5102.



## Product Data

General	
Roll Length (m)	100
Roll Width (m)	3
Thickness (mm)	0.17
Weight (kg/m <sup>2</sup> )	0.06
Weight per Roll (kg)	20
Water Vapour Transmission (S <sub>d</sub> ) (BS EN ISO 12572)	0.01

### Water Penetration

The product has been tested in accordance with ETAG 031.

The following f.x. values have been verified for use in U-value calculations:

f.x. = 0.0012 (paving slabs on supports)

f.x. = 0.0010 (gravel or green roof system)

(\*BBA Report No. 47517)

### Fire

Inverted roofs, when assessed to the British Standard fire test specified below, can achieve the result shown, when the surface finish is either minimum 50 mm gravel ballast or minimum 40 mm paving slabs. For specifications without the gravel ballast or paving slabs please consult the manufacturer of the specific external weatherproofing / ballast for their fire classification details.

BS 476-3: 2004

FAA rating

(External fire exposure roof test)

*Kingspan Insulation Ltd. reserves the right to amend product specifications without prior notice. The information, technical details and fixing instructions etc. included in this literature are given in good faith and apply to uses described. Recommendations for uses should be verified for suitability and compliance with actual requirements, specifications and any applicable laws and regulations. Kingspan Insulation offers a Technical Advisory Service (see below), the advice of which should be sought for uses of Kingspan Insulation products that are not specifically described herein. Please check that your copy of this literature is current by visiting the Kingspan Insulation web site (see below).*



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