

Technical Data Sheet Aquazone®

Product Description / Use:

Aquazone® is a high-performance nonwoven polyethylene membrane. It is suitable for use as a waterflow reducing layer on inverted roofs finished with gravel ballast, green roof systems and concrete pavers on appropriate supports.

Aquazone® can be installed over GreenGuard® XPS insulation on inverted roofs and 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.

Benefits:

- 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.



Technical Specification:

General		
Roll length	(m)	100
Roll width	(m)	3
Thickness	(mm)	0.185
Weight	(kg/m ²)	0.06
Water vapour transmission (BS EN ISO 12572)	(S _d)	0.01

Installation:

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, Aquazone® should be turned up to finish above the surface of the ballast layer.

Aquazone® should be star-cut and dressed down at drainage outlets. It should be turned up at the edges of the roof insulation and sealed under the flashing. Cutting should be carried out using a sharp knife.

MOY recommend that roofs be designed such that they avoid standing water.

In an inverted roof system, insulation laid over the waterproofing layer must be suitably loaded to restrain it against flotation and wind uplift and to protect it against damage and long-term degradation by UV light.

Stone ballast gives a good appearance at an economical cost and should be 20-40mm nominal diameter, clean, washed and reasonably free from fines. When boards are overlaid with a suitable separating layer such as Aquazone® - lapped 300mm, then a minimum 50mm depth of 20/40 aggregate may be sufficient to counter flotation of the insulation. Additional ballast may, however, be needed in those areas subject to wind uplift, such as exposed perimeters and corners.





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Aggregate should be replaced by paving slabs:

- to form walkways where regular foot traffic is expected
- where the kerb at the roof edge is too shallow to retain the aggregate
- at perimeters, where aggregate will not provide sufficient resistance to wind uplift or will be affected by wind scour – see BRE Digest 311.

Concrete pavers 600mm x 600mm and 50mm thick should be raised off the insulation on corner spacers to allow drainage and to avoid rocking.

Delivery Form:

Rolls.

Storage:

The polyethylene packaging, 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.

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

Disposal:

Aquazone® is chemically inert and safe to use.