

Aquaflow SC Membrane™



- Part of the Hanson Formpave Aquaflow system
- High resistance to puncture
- Restricts water entering the sub-grade
- Preserves sub-grade structural integrity
- Tape bonded or welded joints
- Manufactured in the UK

Description

Aquaflow SC Membrane™ is a UK manufactured co-polymer thermoplastic membrane. The product is coloured green, 500 microns thick (2000 gauge) and supplied in rolls 4m x 12.5m.

Application

Sustainable Urban Drainage Systems (SUDS) are increasingly being used to prevent run-off and flooding, and as a method of collecting and cleaning storm water.

SUDS allow heavy rain fall to infiltrate through a permeable concrete block paved surface into a sub-base before being released in a controlled manner into sewers or water courses.

Aquaflow SC Membrane™ provides an impervious layer ensuring attenuation of the collected storm water. It restricts water entering the sub-grade and preserves sub-grade structural integrity.



Installation

Sub-grade

The sub-grade should be free from sharp protrusions likely to puncture the membrane. Refer to Hanson Formpave Aquaflow literature for details of sub-grade specification and preparation.

Membrane jointing

For most application, tape-bonded joints are suitable. However, in applications where a high level of waterproofing integrity is required, such as sites with high water tables or areas above basement structures, the membrane should be laid with welded joints. For advice on which jointing option should be used, contact Hanson Formpave design team on 01594 836999.

Taped joints

Ensure that the membrane is clean and dry at the time of jointing. The membrane should be overlapped by at least 300mm and bonded with Aquaflow SC Double Sided Jointing Tape positioned approximately 50mm into the overlap. Pressure should be applied to the bonded area of the lap to ensure waterproofing integrity.

Perforations or punctures in the membrane should be covered with another sheet of membrane, have an overlap of at least 300mm and the laps sealed with Aquaflow SC Double Sided Jointing Tape.

Welded joints

For details of contractors who undertake on-site welding of Aquaflow SC Membrane™, contact Hanson Formpave design team on 01594 836999.

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Covering

The membrane should be covered as soon as possible after installation. Care should be taken to ensure that the membrane is not punctured, stretched or displaced when applying the sub-base.

Storage and handling

Aquaflow SC Membrane™ is classified as non-hazardous when used in accordance with the manufacturers' instructions. The membrane is chemically inert and is not affected by acids or alkalis that may be present in the sub-base or sub-grade.

The product is not intended for use where it will be exposed for long periods of outdoor weathering.

When the weather is cold, Aquaflow SC Double Sided Jointing Tape should be kept in a warm, dry place until needed. Membrane installation is not recommended below 5°C.

Technical Data

Aquaflow SC Membrane™	
Thickness	500 microns (2000 gauge)
Colour	Green
Roll dimensions	4m x 12.5m
Roll weight	23kg
Resistance to water pressure – taped joint	
24 hours @ 60kPa	Pass
2 hours @ 240kPa	Pass

Aquaflow SC Double Sided Jointing Tape	
Thickness	1.5mm
Colour	Black
Roll dimensions	100mm x 15m

The values given are indicative and correspond to typical results obtained in laboratories and testing institutes.

The information given in this datasheet is based on data and knowledge correct at the time of printing. Statements made are of a general nature and are not intended to apply to any use or application outside any referred to in the datasheet. As conditions of usage and installation are beyond our control we do not warrant performance obtained but strongly recommend that our installation guidelines and the relevant British Standard Codes of Practice are adhered to. Please contact us if you are in any doubt as to the suitability of application.

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