

Topic:	SUDS in home zones
Date:	17 November 2005
Project:	Various
Contact:	www.ciria.org/suds
	<ul style="list-style-type: none"> • The Environment Agency published an Interim Code of Practice in July 2004 with guidance on implementing SUDS in new developments and with model maintenance and 106 Agreements (link to www.ciria.org/suds/icop.htm) it is accessible on the CIRIA SUDS website. • The Scottish Executive has embraced SUDS commissioning the SUDS Design Manual from CIRIA in March 2000. Planning Advice Note PAN 61 (2001) gives good practice advice for planners and developers on the development control process. www.scotland.gov.uk/planning • Dings, Bristol trials SUDS The Dings Home Zone includes a Sustainable Urban Drainage System (SUDS) which Bristol City Council is treating as a trial. Introduction of SUDS at other sites depends on the success of this pilot scheme that has been adopted by the City Council. Bristol designed and installed an adoptable flush shared surface using a SUDS permeable block paving system. This included provision for the relaying of electricity cables underground and replacing Bristol water service pipes, the carriageway was reconstructed to about one metre in depth. Wessex Water were reluctant to allow any additional sewer connections and the company is reassured that the system will not put further pressure on its sewers but has some reservations where the SUDS system overlays it's plant probably as reinstatement costs would be higher. See below for photos of the construction work. • A briefing sheet for residents from Formpave is attached. • A briefing sheet for residents from Formpave is attached.



Important information about your Aquaflow driveway

The Aquaflow system is more than just a driveway or patio. It also provides an environmentally friendly solution for storm water drainage.

You will notice that the aquaflow paving blocks have small channels at either end. It is these channels that allow rainwater to pass through the surface of the blocks into a special sub-base, which then cleans the water.

The system relies on the permeability of these surface blocks being retained. There are therefore essential precautions that must be observed:

The surface must be protected from fine material such as soil and sand. Therefore, if you have a delivery of turf or top-soil, you should cover the driveway to prevent spillages from falling on to the aquaflow blocks.

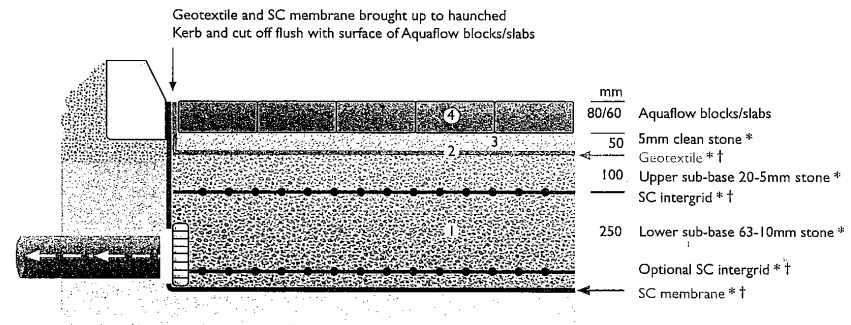
The Aquaflow area should be swept several times a year to keep the surface free from leaves and other debris.

The system is capable of degrading small quantities of oil that might be spilt on the surface. However, it must be covered and protected if vehicle maintenance such as an oil change is carried out.

As with any block-paved area, if the surface becomes stained or damaged, the blocks can be removed and replaced with new blocks. However, if for any reason it is necessary to uplift part of the system beneath the blocks, it is essential that the following re-instatement procedure is followed:

1. Replace the layer(s) of sub-base stone to former level and compact. (where previously installed, cut and install fresh geo-grid(s) allowing 300mm of overlap either side.)
2. Fresh geotextile should be cut and installed, ensuring that any joints are overlapped by 300mm.
3. Replace the 50mm depth of 5mm laying course and screed to finished level.
4. Relay blocks and compact
5. Scatter and brush in a loose covering of 3mm grit over the finished surface, and sweep any excess off the surface.

Make-up of Formpave Aquaflow system



Depth of sub-base can be varied to suit requirements of engineer.
 Second optional intergrid - at discretion of engineer depending upon the CBR of the subgrade and the number of standard axles likely to run over.

* See specification
 † Supplied by VWTB Geotextiles
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