



Sealing, Stabilising, Protecting Paving

PERMEABLE PAVING CASE STUDY

Project Name: Sizewell B Nuclear Power Station

Client: EDF Energy

Contractor: Essex Dev. & Const. Ltd.

Project: 400m² Standard Flags (600x600)

Products Used: Resiblock Envirofix & Sudsflow

Date: March 2013



The Site

Sizewell B Nuclear Power Station located on the East Anglia Coast was built between 1988 & 1995 and is the UK's newest. It is capable of supplying over 2.5m homes, equivalent to the domestic needs of the counties of Suffolk & Norfolk. Around 1,000 people are employed at the station and the extended secure staff entrance incorporated new permeable paving.

The Challenge

The project consultants Parsons Brinkerhoff were concerned about aggregate joint loss from cleaning regimes and the penetration of ladies heels (potential tripping hazard). Additionally they wanted to incorporate a standard paving flag into the permeable paving design.

The Solutions:

Resiblock were able to resolve these issues with two innovative products and post a consultation phase they were incorporated into the design specification. Envirofix is a solvent free aggregate binder that will not adversely impede the water flow. In addition it will seal the paver units thus providing long-term stain protection. Sudsflow spacers provide an exact joint width between blocks & flags thereby allowing most modular paving to be incorporated into a permeable paving system.

Benefits at a Glance:

Envirofix

- ***Bonds the jointing aggregate but does not adversely impede water drainage***
- ***Prevents aggregate extraction (from cleaning regimes) & penetration***
- ***Additionally provides long-term stain protection to the pavers***

Sudsflow

- ***Specification not limited to purpose-made permeable pavers***
- ***Designed to allow rain water flow at the same rate as unpaved ground***
- ***Compressive strength equal to the nibs on purpose made permeable pavers***
- ***Manufactured to comply with the Draft Legislation Flood & Water Management Bill***



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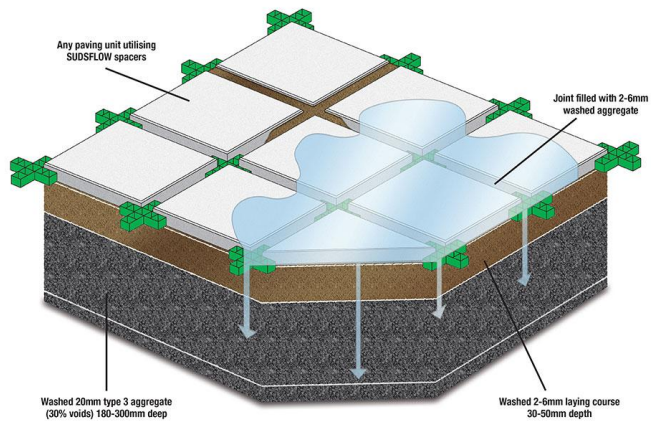


System:

In combination with suitable paving units and bedding materials, Sudsflow should address water management, pollution removal and rainwater recycling issues.

Construction costs incorporating Sudsflow can be less expensive than conventionally drained paved areas as the necessity for gullies, drainage pipes etc. is eliminated. Additionally specialist permeable paving units are not required.

The system can be incorporated into both domestic driveways and commercial, heavier duty, applications with an adequately designed sub-base.



System:

The image demonstrates fully bonded jointing aggregate with Resiblock Envirofix allowing unimpeded water flow - approx. 18,750 litres/sec/hectare*
(*product tested Marshalls Piora)

This unique binder prevents jointing aggregate erosion from either mechanical cleaning regimes or trafficking and significantly reduces weed growth.

Additionally seals the paver units and provides long-term stain protection.



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