



# Springfield Park, Horsham

## The Flexibility of Stormcell® Controls Housing Development Discharge

### Project Profile:

- Shallow load bearing storage required.
- Extensive structural costs avoided.
- Insufficient space available for traditional systems.

### Product Profile:

- Storage / attenuation applications.
- Soakaways.
- Under car parks / roads and porous pavements.
- Very strong (up to 40 tonnes/m<sup>2</sup>).
- High void ratio (95%).
- Low cost.
- Optional volume, size, shape and depth.

Discharge restrictions imposed by Southern Water could have caused difficulties for a Berkeley Homes (Southern) Ltd development at Springfield Park, Horsham. By suggesting Hydro's Hydro-Brake® Flow control and Stormcell® storage and flow control system, the consultant engineers provided a highly effective solution within the space constraints of the site.

As Malcolm Ball, of consultant engineers Dixon Hurst Kemp, explained: "The rainwater drainage was designed to discharge to a Southern Water main drain at one end of the site. However, the maximum outflow restrictions meant that we would have to build storage tanks to ensure controlled discharge to the mains."

"There was not enough room on site for storage using either oversized man-hole construction or a granular storage area which only has a maximum void space of 35%. Stormcell® has over 90% void space thus ensuring high capacity, and is load bearing. As a result, we were able to site a shallow tank part under grass and part under a driveway, without extensive structural costs."

The Springfield Park development comprises 48 two, three and four bed executive homes, in an area of expanding population where stormwater drainage to the Water Company's infra-structure has to be carefully regulated. By providing a space saving and load bearing discharge control and tanking package solution, Stormcell® and Hydro-Brake® are highly suitable for installation where development land is at a premium.

Main contractor for the Berkeley Homes (Southern) Ltd's Springfield Park development was Polarbridge Ltd of Hindhead.

Hydro's Stormcell® comprises a modular block, high capacity stormwater storage system with a very shallow profile, suitable for shallow tanks. It can withstand transient vertical loads of up to 40 tonnes/m<sup>2</sup> so can be installed under car parks, driveways and even landscaped gardens. Its inherent structural strength also reduces sub-base preparation requirements.

The Hydro-Brake® is a compact discharge control system without power requirements and available in a range of flow volumes. Hydro also offers oil separation and grit removal solutions either separately or as part of packaged systems.



**Hydro International**  
Shearwater House  
Clevedon Hall Estate  
Victoria Road  
Clevedon • BS21 7RD  
Tel: 01275 878371  
Fax: 01275 874979

E-mail:  
enquiries@hydro-international.co.uk  
Website: www.hydro-international.co.uk

This information is for guidance only and not intended to form part of a contract. Hydro International pursues a policy of continual product development and reserves the right to amend specifications without prior notice. Equipment is patented in countries throughout the world.

