

PROJECT CASE STUDY

Tram Depot, Edinburgh

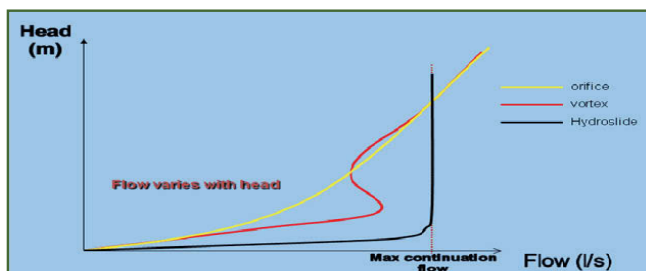
Project Summary

The attenuation system for the Edinburgh Tram Depot comprised of 525 StormTech SC740 chambers. The system was designed by Parsons Brinckerhoff, supplied by Microstrain and installed by Barr Construction.

StormTech was chosen as the preferred system for the project due to the following attributes;

- The design incorporated the patented Isolator Row which provides TSS separation that protects the system designed storage capacity, and assures optimum hydraulic performance.
- It was placed under traffic area, Stormtech can take HGV loading with 300mm cover. The parabolic arch with stone column ensures live and long term loading design standards are met.
- The speed and ease of installation.

A Hydroslide flow regulator supplied by Microstrain Ltd was used to control the 46 l/s discharge rate. The float activated mechanism which has been widely used by UK Water Authorities, is designed to maintain a constant discharge without the use of external energy sources. By utilising a Hydroslide unit as opposed to a head driven vortex unit, up to 30% in attenuated volume can be saved, thus the client saves on attenuation materials, construction costs and installation time.



By utilising a combination of the Hydroslide flow regulator and the StormTech attenuation system, Microstrain were able to save 22% in the attenuated volume for this project. A reduction of 351m³.



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