Aquaflow System

Required Design Criteria

To design the Aquaflow System we need to ensure that the sub-base has sufficient capacity to attenuate the rainfall and has adequate structural strength to accommodate the proposed loading requirements.

To facilitate the design of the Aquaflow System and achieve the parameters above, the following information would be required:

Section 1 - Basic Information required for all Systems

Name & address of scheme. (with post code if available)	

CBR Test Results CBR results give an indication of the subsoil load bearing capacity. This is essential for us to be able to design the structural depth of sub-base material to achieve adequate strength for the proposed vehicle loadings. (3% can be assumed if not available & confirmed prior to construction)	(%)	Not available (assume 3%)
		☐

Expected Loading		
Heavy Duty	(Heavy Goods Vehicles, Buses etc)	☐
Medium Duty	(*Cars, occasional delivery trucks etc*)	☐
Light Duty	(*Cars only*)	☐
Pedestrian	(Foot traffic only - no cherry pickers)	☐
Others	(Please specify) …………	

Rainfall Data Return Period for the system to be designed to. (e.g. 1:100 years)	

Climate Change Allowance (e.g. 20-30%)	

Rainfall Catchments What is the proposed catchment area for the system? Please tick the appropriate box or identify on the drawing.	Car park	Road	Roof	Footpath	Other (please specify)
	☐	☐	☐	☐	

Contamination Report Is the site contaminated?	Yes	No	Not available
	☐	☐	☐

Layout Drawings	Are they attached?		
We require a layout drawing/s in **AutoCAD** format indicating the General Arrangement, Proposed Levels and Proposed Aquaflow locations.	**Yes** ☐	**No** ☐	**Not available** ☐

In addition to the basic criteria needed to design the Aquaflow system the different types of system require some specific information:

Section 2 - Specific Information for the Different Systems

Infiltration

Permeability Tests	Rate	Not available
These are used to ascertain the permeability rate of the existing ground from the sub-base material		☐

Infiltration tests should be in accordance with the BRE365 method and reflect the rate at the depth of the paving formation. Typically between 500mm and 1000mm below finished cover.

Attenuation

Discharge restrictions	(litres/second)
To design adequate capacity in the sub-base we will need the discharge rate imposed on the system.	

Please ensure the discharge locations are identified on the AutoCAD drawing

Completed by :	
Date :	

- The Formpave Aquaflow system is protected by European and International patents specifically covering the use of a reinforcing geogrid within its sub-base – enabling a reduction in construction depths. Any design including details, plans and calculations provided by us are protected under copyright, design right and patent law and are for use with the Formpave Aquaflow range of blocks only.

- The design of the system is covered by Professional Indemnity Insurance for a value of not less than £5m for each and every claim and we agree to maintain such insurance for a period of 6 years from practical completion providing such insurance is available at commercially reasonable rates.

- Advantages of using the Formpave Aquaflow system:

    o Reduced construction costs with SC Intergrid.

    o Warranted design solution.

    o Water cleaning removing the need for petrol interceptors.

Please tick to confirm the above statements are read and understood ☐

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