

Application N°: AW/130/18/OUT

CONDITION 4

**Site Address:
34-44 Carlton Avenue
Bognor Regis
West Sussex
PO21 4DU**

Ref: COUNT/CarltonAve

SW DRAINAGE DESIGN STATEMENT



COUNTERPOINT
P R O P E R T I E S L I M I T E D

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Condition 4

‘Development shall not commence, other than works of site survey and investigation, until full details of the proposed surface water drainage scheme have been submitted to and approved in writing by the Local Planning Authority. The design should follow the hierarchy of preference for different types of surface water drainage disposal systems as set out in Approved Document H of the Building Regulations, and the recommendations of the SuDs Manual produced by CIRIA. Winter groundwater monitoring to establish highest annual ground water levels and Percolation testing to BRE365, or similar approved, will be required to support the design of any infiltration drainage. No building / No part of the extended building shall be occupied until the complete surface water drainage system serving the property has been implemented in accordance with the agreed details and the details so agreed shall be maintained in good working order in perpetuity.’

The submitted Surface Water drainage design has been agreed in principle with the LPA Drainage department.

It is proposed to use a Formpave porous paving system as a blanket soakaway with the following specification:

- i. Level formation;
- ii. 450mm gravel sub-base*;
- iii. 80mm DBM temporary running/construction layer;
- iv. 50mm shingle; and
- v. 80mm Formpave permeable block paving (infiltration system).

*The gravel sub-base is specified with a 35% void ratio. Although this is slightly higher than standard for design purposes (30%) it has been demonstrated that the grading generally produces void ratios in excess of 36%; the approach has been AIP by the LPA.

Certification of the sub-base material and voids ratio will be necessary prior to installation to verify that the sub-base has the required properties.

The Site Investigation reports prepared by Constructive Evaluation include soakaway testing in accordance with BRE365 and Soil Infiltration Rates. Winter ground water monitoring data is also provided.

The system design is based on the following parameters:

- Lowest recorded SIR;
- Applicable SIR safety factors;
- Urban creep factor of 10% to impermeable areas; and
- GWL Assessment