

From: Maria Tomalova <Maria.Tomalova@arun.gov.uk>
Sent: 20 July 2020 18:36
To: Planning.Responses <Planning.Responses@arun.gov.uk>
Subject: FW: BR/128/20/DOC, 9 Westloats Lane

Please upload the below and attached to the above application. Drainage, further information.

Thank you

Maria Tomalova | Senior Planning Officer, Directorate of Place, Arun District Council | Location: First Floor, Arun Civic Centre,
Maltravers Road, Littlehampton, BN17 5LF
Internal: 37510 | External: +44 (0) 1903 737510 | E-mail: maria.tomalova@arun.gov.uk



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From: Orchard Enterprises [REDACTED]
Sent: 20 July 2020 12:47
To: Maria Tomalova <Maria.Tomalova@arun.gov.uk>
Subject: RE: BR/128/20/DOC, 9 Westloats Lane

Dear Maria

I have spoken to Sarah Burrow with regards to her comments and please find attached the responses.

- 1, The calculation is correct Sarah made an error
- 2, Three tests were carried out and the worst case was used, the other tests are now noted on the calculation sheets.
- 3, Using the correct infiltration figures I supplied this does now drain within 24 hours
- 4, See attached new plan
- 5, see attached new plan
- 6, Permeable paving is shown on the plan and construction details from Marshalls are attached, they are not included in the calculations as no surface water from these areas is added to the drainage system.
- 7, Drawing amended to take this into account

I hope this answers the queries

Regards

Lee Smith

From: Maria Tomalova <Maria.Tomalova@arun.gov.uk>
Sent: Tuesday, July 14, 2020 1:43 PM
[REDACTED]
Subject: BR/128/20/DOC, 9 Westloats Lane

Dear Mr Smith,

With regards to your application (condition 4) there is a comment of Drainage Engineer attached on our website to be considered:

The infiltration rate calculated does not appear to be correct. Based on the dimensions of the trial pit and the times recorded to infiltrate from 75% to 25% full, using BRE365 I have calculated the infiltration rate to be 1.45×10^{-6} . The A value does not appear to be correct in the calculations.

2. It also appears that only one infiltration test was completed. BRE 365 stipulates that the trial pit should be filled three times in succession and the worst rate used for the calculations.
3. Using an infiltration rate of 1.45×10^{-6} the half drain time for a ten year event (+40% climate change) exceeds 24 hours.
4. The Soakaway Plan does not include the necessary level of detail as described in the Drainage Checklist. (Pipes, silt traps/manholes/inspection chambers, invert levels, cover levels, gradients/falls).
5. No construction detail drawings have been supplied (Soakaway, silt trap, pipe bed and surround minimum).
6. Permeable paving is noted on the site plan, but there are no calculations for this. Nor is it included in the drainage layout. Nor do we have a construction detail for it.
7. Any soakaways need to be kept a minimum of 1.5m from the property boundaries.

This application requires a significant redesign and further detail before it will be possible to recommend that the relevant condition is discharged. Indeed, based on the (apparently) insufficient testing it may be that infiltration is not viable on the site. It is strongly recommended that the applicant engages a professional Drainage Engineer who may be able to assist with the challenges of draining this site and discharging the relevant condition.

Kind regards

Maria

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