

From: Richard Temple [REDACTED]

Date: 13/08/2015 09:01

Subject: FW: FP/127/15/DOC 114 Felpham way

Dear Mr Matthews,

Please find below the response from our Drainage Engineer.

As more information is required and our 8 week target date is today I am required to refuse the DOC as we cannot agree extension of time for this type of application.

Please re-apply with the required information when you are able to.

Regards,

From: Thomas Callaway
Sent: 12 August 2015 16:24
To: Richard Temple
Subject: RE: FP/127/15/DOC 114 Felpham way (2)

[REDACTED]

Hi Richard

Just finished looking at the newly supplied information.

I checked the calculated infiltration rate and found it to be 3.83×10^{-5} m/s using the raw numbers supplied, rather than the 3.3×10^{-3} m/s stated. This rate would have been far too fast for the expected soil conditions at this location, and I would suggest that even the rate I calculated would be quite good for the area. However this was from the numbers supplied from the testing so we will accept the rate of 3.83×10^{-5} m/s.

I found the rest of the calculations quite confusing to follow so applied the raw data to a spreadsheet I have put together to come up with some design figures. Please note I am not willing to distribute the spreadsheet in case of any inaccuracies that could lead to liability issues. The maximum storage required for the 1 in 100 year storm event plus 30% came out at 6.73 cubic metres using the infiltration rate of 3.83×10^{-5} m/s for 136 square metres of impermeable area.

I would suggest that approximately equal soakaway storage is provided on both sides of the roof ridge. Perhaps crate soakaways (dimension 2x1x0.8m) are used in both gardens, linked to the rainwater harvesting etc by overflows; and that a further two of the same dimensions are positioned on the other side of the building. The base of the soakaways should be no lower than 1.2m below ground level, and it would be useful to have some kind of construction drawings for the surface water drainage system, including the permeable paved areas. It may be sensible to have high level overflows from the soakaways to each other and also the permeable paved areas.

Therefore more information is required to discharge the condition.

Regards

Tom