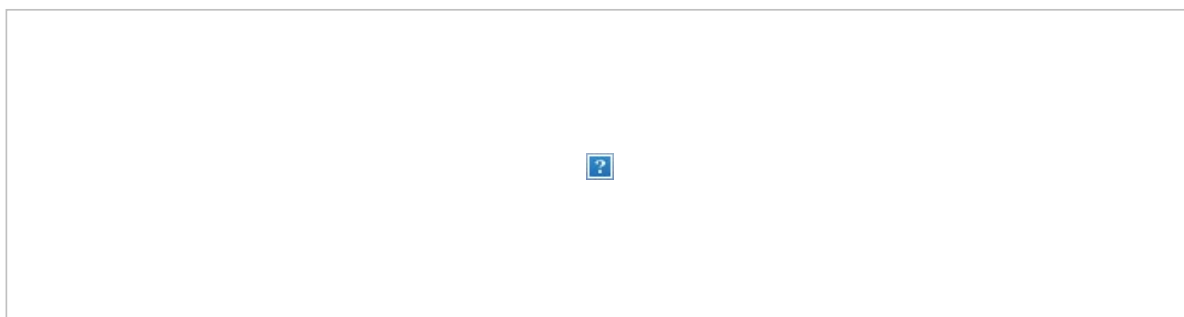


From: [Creswell-Wells, Tavis](#)
To: [Darren Penson](#); [Trevor McKay](#)
Cc: [Andrew Jones](#); [Ware, Kathryn @ London SMC](#); [Gadwah, Amir @ London SMC](#); [Kumari, Kavita](#)
Subject: RE: Castlewood House - WELL - F5 AHU Filtration
Date: 07 November 2019 09:54:16
Attachments: [image001.jpg](#)
[image002.png](#)
[image003.png](#)
[image004.jpg](#)
[image005.png](#)

Hi Darren,

That'd be good thanks.

To clarify, the reason we're needing to add in PM2.5 filtration is that we've received the air quality test results for the site (see screenshot below). Unfortunately its showing that the level of PM2.5 ($19.2 \mu\text{g}/\text{m}^3$ on site) exceeds the WELL maximum criteria of $15.0 \mu\text{g}/\text{m}^3$. As such we will require a filter with an efficiency of at least 22% PM2.5 removal. I believe this is not an onerous spec so hopefully it shouldn't impact on the SFP too much. If it does, an option could be to relax the PM10 spec a little. The air quality result for PM10 showed that the levels on site were $109.3 \mu\text{g}/\text{m}^3$, over double the WELL limit of $50 \mu\text{g}/\text{m}^3$. As such the PM10 removal efficiency needs to be at least 54%. The filter spec you provided shows a PM10 removal efficiency of 75% which is compliant. So, if the addition of the PM2.5 filter increases the resistance across the AHUs too much, would relaxing the PM10 filter spec help to balance that out?



I hope this helps, let me know if you have any questions.

Regards,
Tavis.

Tavis Creswell-Wells
Engineer
[Cundall](#)

One Carter Lane, London, EC4V 5ER, United Kingdom
D +44 20 7438 1640
T +44 20 7438 1600

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From: Darren Penson <Darren.Penson@gdmp.co.uk>
Sent: 07 November 2019 08:06
To: Creswell-Wells, Tavis <t.creswell-wells@cundall.com>; Trevor McKay <Trevor.McKay@gdmp.co.uk>
Cc: Andrew Jones <Andrew.Jones@gdmp.co.uk>; Ware, Kathryn @ London SMC <Kathryn.Ware@cbre.com>; Gadwah, Amir @ London SMC <Amir.Gadwah@cbre.com>; Kumari, Kavita <k.kumari@cundall.com>
Subject: RE: Castlewood House - WELL - F5 AHU Filtration

Tavis, I've asked the AHU manufacturers to review their selections.

Regards

Darren Penson
Associate Director

Darren.Penson@gdmp.co.uk
01322 299570
07471 992009

St. Johns House - 37-41 Spital Street - Dartford - Kent - DA1 2DR



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From: Creswell-Wells, Tavis <t.creswell-wells@cundall.com>
Sent: 06 November 2019 18:37
To: Darren Penson <Darren.Penson@gdmp.co.uk>; Trevor McKay <Trevor.McKay@gdmp.co.uk>
Cc: Andrew Jones <Andrew.Jones@gdmp.co.uk>; Ware, Kathryn @ London SMC <Kathryn.Ware@cbre.com>;
Gadwah, Amir @ London SMC <Amir.Gadwah@cbre.com>; Kumari, Kavita <k.kumari@cundall.com>
Subject: RE: Castlewood House - WELL - F5 AHU Filtration

Hi Darren,

Thanks for this.

The PM10 filter at 75% efficient looks sufficient. However, there doesn't appear to be any PM2.5 filter capacity in any of the filters, is this correct?

Regards,
Tavis.

Tavis Creswell-Wells
Engineer
Cundall

One Carter Lane, London, EC4V 5ER, United Kingdom
D +44 20 7438 1640
T +44 20 7438 1600

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From: Darren Penson <Darren.Penson@gdmp.co.uk>
Sent: 06 November 2019 14:49
To: Creswell-Wells, Tavis <t.creswell-wells@cundall.com>; Trevor McKay <Trevor.McKay@gdmp.co.uk>
Cc: Andrew Jones <Andrew.Jones@gdmp.co.uk>; Ware, Kathryn @ London SMC <Kathryn.Ware@cbre.com>;
Gadwah, Amir @ London SMC <Amir.Gadwah@cbre.com>; Kumari, Kavita <k.kumari@cundall.com>
Subject: RE: Castlewood House - WELL - F5 AHU Filtration

Tavis,

Please see attached quotation from Barkell which gives the details you need. This covers the main AHU's and MVHR units.

Regards

Darren Penson
Associate Director

Darren.Penson@gdmp.co.uk
01322 299570
07471 992009

St. Johns House - 37-41 Spital Street - Dartford - Kent - DA1 2DR



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From: Creswell-Wells, Tavis <t.creswell-wells@cundall.com>
Sent: 06 November 2019 14:39
To: Daryl Curtis <Daryl.Curtis@gdmp.co.uk>; Trevor McKay <Trevor.McKay@gdmp.co.uk>
Cc: Andrew Jones <Andrew.Jones@gdmp.co.uk>; Darren Penson <Darren.Penson@gdmp.co.uk>; Ware, Kathryn @ London SMC <Kathryn.Ware@cbre.com>; Gadwah, Amir @ London SMC <Amir.Gadwah@cbre.com>; Kumari, Kavita <k.kumari@cundall.com>
Subject: RE: Castlewood House - WELL - F5 AHU Filtration

Hi Daryl, Trevor,

Any progress on the below please?

Cheers,
Tavis.

Tavis Creswell-Wells
Engineer
Cundall

One Carter Lane, London, EC4V 5ER, United Kingdom
D +44 20 7438 1640
T +44 20 7438 1600

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From: Creswell-Wells, Tavis
Sent: 04 November 2019 15:44
To: 'Daryl Curtis' <Daryl.Curtis@gdmp.co.uk>; 'Trevor McKay' <Trevor.McKay@gdmp.co.uk>
Cc: 'Andrew Jones' <Andrew.Jones@gdmp.co.uk>; 'Darren Penson' <Darren.Penson@gdmp.co.uk>; Ware, Kathryn @ London SMC <Kathryn.Ware@cbre.com>; 'Gadwah, Amir @ London SMC' <Amir.Gadwah@cbre.com>; Kavita Kumari (<k.kumari@cundall.com>) <k.kumari@cundall.com>
Subject: Castlewood House - WELL - F5 AHU Filtration

Hi Daryl, Trevor,

Please could you forward me through all the filter specs you have for the AHUs and MVHRs highlighting the particle removal efficiencies?

Regards,

Tavis.