



County Hotel, Euston– Acoustic Trickle Ventilators

Report Reference: 9874/BL

Date: 19 June 2023

Dear Luke,

Please find below our review of the performance of the existing ventilation strategy compared to the proposed ventilation strategy.

We understand the hotel rooms are currently ventilated via openable sash windows. In terms of sound attenuation these are expected to provide a sound level difference of up to 15dB(A) outside to inside with a partially open window.

It is proposed as part of the refurbishment of the hotel to provide enhanced glazing and acoustic trickle ventilators. The proposed ventilator is supplied by Titon, model TA5225 TA5005. This acoustic trickle ventilator achieves a weighted element normalised level difference ($D_{n,e,w}$) of 40 dB in the open position.

Our calculations indicate that with the glazing and ventilators proposed the cumulative sound level difference through the façade, windows and ventilators will be in the region of 37 dB(A).

This is a considerable improvement (+22 dB) over the existing ventilation approach and as such we would consider the acoustic trickle ventilators will significantly improve the noise climate within the sensitive rooms over existing, and bring them more in line with modern market/guest expectations.

Best Regards,

Blake Lucas
Director
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