

Mr James Dunne
Barratt David Wilson Southampton
Tollbar House
Tollbar Way
Hedge End
Southampton
SO30 2UH

Date: 13th June 2013
Reference: R2107-18 rev 0

Dear James,

Re: Proposed Re-Plan, Felpham Phase 5A, West Sussex

I am pleased to provide our considerations relating to the impact and mitigation of noise upon the proposed re-plan of Phase 5 of your development at Felpham (which has been termed Phase 5A).

We understand that your proposal will result in an overall increase of 7 additional residential units to the phase.

The noise impact for the scheme was assessed as part of an environmental impact assessment for the original outline planning application. 24 Acoustics Ltd acted on Barratt Southampton's behalf and provided the noise impact assessment for the original reserved matters application in 2007. The increase in road traffic using the relief road as a result of the additional units will be negligible and, as a result of this the ambient noise levels incident upon the proposed new properties will be no greater than that incident upon the properties which are currently consented. 24 Acoustics' technical letter report Reference R2107-13 Rev 0 (dated 17th April 2008) provided details of mitigation measures required to provide a satisfactory internal acoustic environment within the properties. The glazing and ventilation acoustic specifications were determined to ensure that noise levels in habitable rooms would not exceed 30 dB L_{Aeq} during the day and at night.

These specifications have been reconsidered to ensure that the internal noise environment in all plots now proposed in Phase 5A does not exceed 30 dB $L_{Aeq, 16 \text{ hour}}$ during the day and 30 dB $L_{Aeq, 8 \text{ hour}}$ at night.

In practice a standard thermal glazed system using (comprising 4 mm glass, 16 mm airgap and 4 mm glass) will comply with this requirement (throughout the Phase 5A properties).

The plots nearest to the relief road will require passive acoustically-attenuated wall vents, such as the Ryton Hit and Miss wall vent (although other makes and model of ventilator may also comply). The plots requiring this measure and acoustic specification for the wall vents is provided in Table 1 below.

Location/ plots	Normalised Level Difference ($D_{n,e}$), dB per Hz							
	63	125	250	500	1k	2k	4k	8k
Phase 5A, 113- 130	40	41	31	28	38	41	47	47

Table 1: Summary of Ventilation Specifications, Felpham Phase 5A

Windows to all other plots may be fitted with standard trickle vents. Noise levels not exceeding 30 dB $L_{Aeq, 16 \text{ hours}}$ during the day and 30 dB $L_{Aeq, 8 \text{ hours}}$ at night will be achieved in these properties when windows are closed.

All other previous recommendations provided for the Phase 5 properties which do not form part of the proposed re-plan remain unchanged.

I trust you will find the above satisfactory. Should you have any further queries, however, please do not hesitate to contact me.

Yours Sincerely

For 24 Acoustics Ltd

Reuben Peckham BEng MPhil CEng MIOA
Director & Principal Consultant

