

Mr Matthew Drake

Senior Land Manager
Barratt Homes & David Wilson Homes Yorkshire West
Raynham House
2 Capitol Close
Morley
Leeds
LS27 0WH

Our Ref: LDP2246 110321

Date: 11th March 2021

Dear Mr Drake

Halifax Road, Penistone - Noise

In December 2018 a Noise Assessment was produced for the site at Halifax Road, Penistone. This demonstrated that, with consideration to noise mitigation measures, including the provision of appropriate glazing and ventilation to the façade facing directly onto Halifax Road and Well House Lane, an appropriate level of protection could be afforded to future noise sensitive receptors on the Site.

It stated that for the proposed dwellings located closest to Halifax Road, all criteria would be achieved with standard thermal double glazing such as a configuration of 4mm pane / 12mm airgap / 4mm pane, which would need to provide a minimum $R_w + C_{tr}$ of 27 dB, in conjunction with an acoustic ventilators, which achieve a minimum performance of $D_{n,e,w} + C_{tr}$ 35 dB would be required.

For the remaining dwellings located closest to Halifax Road the assessment outlined that all criteria would be achieved with standard thermal double glazing such as a configuration of 4mm pane / 12mm airgap / 4mm pane, which would need to provide a minimum $R_w + C_{tr}$ of 27 dB. With regards to Trickle ventilators it states that a minimum performance of $D_{n,e,w} + C_{tr}$ 32 dB would be required.

The Noise Assessment also considered noise levels in outdoor living areas located closest to, and with a direct line of sight to Halifax Road. The assessment determined that the levels would exceed the recommended guideline noise level. Therefore, mitigation in the form of a 1.8m high close boarded fence was suggested to reduce noise levels from road traffic to within acceptable levels as recommended in BS8233 and WHO.

Since the submission of the Noise Assessment the layout has been revised as per Appendix A. The new layout places those residential properties facing Halifax Road further south into the site, creating a greater buffer between the road and the build-line. In addition to this, there are a number of gardens that have been placed to the rear of the dwellings where they are now screened from Halifax Road. This combination of factors is acoustically beneficial, resulting

Whitehall Waterfront
2 Riverside Way
Leeds
LS1 4EH

Tel: 0113 233 8000

leeds@bwbconsulting.com
www.bwbconsulting.com

in reduced impact of noise on the properties nearest to Halifax Road, and will ultimately result in less stringent mitigation requirements to those stipulated in the original assessment. This reduced impact will equate to over a 3db reduction.

Yours Sincerely

Dawit Abraham

Principal - Acoustics

enc. Appendix 1 Layout

Whitehall Waterfront
2 Riverside Way
Leeds
LS1 4EH

Tel: 0113 233 8000

leeds@bwbconsulting.com
www.bwbconsulting.com

