

Dear Mr Webster,

Thank you for your email and for forwarding the consultation response from Environmental Health. In response, I am providing the details of the proposed acoustic insulation panel that will be installed alongside the heat pump:

- Product: Forest Garden 6ft (1.83m x 1.8m) Decibel Noise Reduction Fence Panel
- Construction: Pressure treated smooth-planed mixed softwood, rebated frame with extended
- tongue and groove boards, triangular Triform profile for additional sound diffusion
- Dimensions: Height 180 cm, width 183 cm, depth 4.5 cm, board thickness 17 mm
- Surface density: Equivalent to a high-density timber construction exceeding 10 kg/m² (suitable for
- acoustic barrier use)
- Weight: 39 kg per panel
- Performance: Independently tested to BS EN ISO 10140-2 and ISO 717-1, achieving BS EN 1793-
- 2:2012 Category B3, with a certified noise reduction performance of up to 30 dB (i.e. capable of
- reducing the sound level of a petrol lawnmower to that of normal conversation)
- Durability: Pressure treated, with a 15-year anti-rot guarantee, PEFC certified timber

The MCS020 assessment for my proposed installation produced a rating of 42.8 dB, which is marginally above the 42 dB threshold. I note that the Environmental Health officer referred to the sound rating level of 40 dBA being exceeded in their response. In either case, the exceedance is very small. Given that the above acoustic fence has been laboratory-tested to provide up to 30 dB attenuation, I expect that its installation between the heat pump and the property boundary would comfortably bring the predicted rating level well below the 42 dB pass threshold set by MCS020.

On that basis, I trust this information provides sufficient assurance to address the concerns raised and would appreciate if the Environmental Health could reassess the application with the extra information above. Of course, if the Environmental Health officer considers that an alternative model of fence, configuration, or installation detail would be more effective in achieving compliance, I would be very happy to receive their advice and attempt to adapt accordingly.