

24 Acoustics - Aileen Reed BEng MIOA

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Review of noise impact implications of basement extensions in RBKC

Executive Summary

- To carry out a noise impact assessment for the methods that can be used in basement construction. This is in response to a planning policy proposed by the Royal Borough of Kensington & Chelsea.
- **The Key Facts are:**
- RBKC proposes to introduce a planning policy to limit the size of basement extensions. Although noise is cited as one of the reasons for introducing this policy, no quantification of noise impact is referenced.
- The construction methods in this report are intended to reduce the impact of noise on neighbouring properties. Methods that do not involve piling or the use of percussive tools result in minimised vibration levels.
- Calculations of the potential noise levels generated by the construction works have been carried out using the guidance of BS 5228.
- Source noise data for the plant has been obtained from the plant manufacturers or taken from the database contained in BS 5228.
- The conclusion is that construction methods that can be used are likely to ensure that for basement construction projects noise levels will generally not exceed those specified in BS 5228 and that vibration levels will be minimised.