

Mr John Boatman
Boatman Mechanical Services
Unit 1 Abbey Trading Estate
Bell Green Lane
London SE26 5TW

Re: 3232/pja

19th January 2007

Dear John,

Re: Dim T. 32 Charlotte Street, London – Noise Control Works

I write following our telephone conversation this morning to outline the anticipated acoustic benefit of the noise control works we are currently carrying out at the above site on the kitchen extract and supply fan systems as well as the replacement of the Trane air conditioning unit. The works are set out below;

Kitchen Supply Fan

- remove existing 90 degree weather cowl
- cut the existing 600 x 600 vertical duct by 800mm
- fit new 90 degree bend (turning duct in the horizontal)
- fit new 90 degree bend (turning duct to run parallel with back wall of building)
- Fit new silencer IS40/18 600 x 600 x 1800mm long
- Fit weather cowl with bird mesh

Kitchen Extract Fan

- remove duct section above the existing silencer in the riser
- fit new silencer with access panel to match existing silencer (approx 1800mm long)
- make 50mm acoustic panel work enclosure to cover the kitchen extract fan
- make 50mm acoustic panel work to cover the ductwork bend below the fan through to the wall penetration

Trane Unit

- Remove packaged air-conditioning unit

New Condensers

- Add 2 No. Daikin condensers type RZQ125B8V3 and 1 No. RXS60BVMB rated at 52 dBA at 1m free field, fitted with Environ acoustic enclosure to reduce noise levels to 27 dBA at 1m (see attached Environ Selection Matrix dated 16th January 2007)

Noise levels were recorded on 8th September 2005 on the far roof of No. 34 Charlotte Street, close to the back living room window of the complainant's house 15 Colville Place.

Mr Lee Casey of Camden EHO has confirmed that the effective background noise level up to midnight (the latest hour of operation of the plant) is 43 dB L_{A90} and he has also stated that noise from the plant should be limited to background minus 5 dB or 38 dB L_{Aeq} .

The table below sets out the measured noise levels, the noise criteria and attenuation needed to ensure that the noise emitted by the kitchen supply and extract fans is limited to 38 dB L_{Aeq} .

Plant	Existing Noise Level	Overall Noise Criteria	Individual Attenuation Required	Comment
Trane unit only (packaged air handing unit)	56 dB L_{Aeq}	38 dB L_{Aeq}	na	Unit disconnected
Kitchen supply fan only	40 dB L_{Aeq}	38 dB L_{Aeq}	12 dB	Attenuation works being carried out
Kitchen extract fan only	52 dB L_{Aeq}	38 dB L_{Aeq}	14 dB	Attenuation works being carried out

It is anticipated that these works will reduce the overall noise levels in conjunction with a new 2m high acoustic screen to 38 dB L_{Aeq} when measured at the nearest habitable window.

I hope that the above information is of assistance; however should you require anything further please let me know.

Yours sincerely,

Peter Ashford
Mobile 07966 234 148
Fax 01932 469030
E-Mail: peter@iansharland.co.uk