# Noise, Vibration and Ventilation Assessment

Installation of Air Extractor Fan Outlet

Railings Gallery, Unit 10, Asphaltic Business Park, London NW5 3EW

## Existing Background Noise Levels

The existing background noise levels are in the range of 58 to 65 decibels (see Appendix 1).

## Proposed Background Noise Levels

The proposed background noise levels are expected to be in the range of 58 to 65 decibels.

## Measures Proposed to Reduce Noise, Fume Emissions and Vibration

Noise levels are not expected to rise following the installation of the outlet.

Before entering the outlet the extracted air will pass through corrugated cardboard filter media with a maximum resistance of 250 pascals / 1" watergauge so emissions will contain minimal particles of water-based paint overspray.

All outlet parts will be rigidly held and joins will be sealed with silicone and / or HDPM rubber so vibrations are expected to be insignificant.

## System Manufacturers Specification

Refer to drawing no. KT06MP

## Report Compilation Method

A Silverline 633937 Sound Level Meter (Range: 50 to 126db. Accurate to +/- 2dB at 114dB) was used to take existing noise level readings at hourly intervals at ground level in front (Southern side) of Unit 10 and in front of the adjacent light industrial units where all the doors and windows are positioned --- refer to drawing no. KT05MP_WIN.

The business hours of Unit 10 are 0730 to 1530 Mon to Friday so no readings were taken outside these times / days.

The manufacturers of the extractor fan outlet advise that noise levels immediately adjacent to the installation at roof level will be no higher than a 'whisper' and so we conclude that the noise levels expected at ground level, adjacent to the doors and windows of the adjoining units will not be significantly raised.

# Appendix 1

## Background Noise Level Test (dB)

| | Unit 8 | Unit 9 | Unit 10 | Unit 11 |
|---|---|---|---|---|
| 0800 | 57 | 58 | 62 | 60 |
| 0900 | 61 | 60 | 61 | 59 |
| 1000 | 61 | 61 | 60 | 61 |
| 1100 | 61 | 60 | 62 | 62 |
| 1200 | 62 | 64 | 62 | 61 |
| 1300 | 63 | 60 | 59 | 61 |
| 1400 | 62 | 62 | 65 | 61 |
| 1500 | 63 | 63 | 64 | 61 |
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