HT: 16378 **24/05/2011**

ST. PANCRAS BOXING CLUB

ACOUSTIC SPECIFICATION FOR

ACOUSTIC SCREEN TO AHU/03

Acoustic screening shall extend:

- continuously around air handling unit AHU/03
- from the roof up to a height level with the highest part of the air handling unit AHU/03.

The screen shall be imperforate (solid) and have a minimum mass per unit area of at least 10kg/m^2. (Note: This could typically be achieved with 1.3mm galvanised steel sheet).

Doors, access panels and service penetrations shall be treated so as to maintain the acoustic performance of the assembled screen.

All junctions between the screen and adjacent structures shall be made good and sealed with a heavy grout and/or dense non-hardening mastic.

The complete structure shall be wind and weather resistant to standards agreed with the Client.

The exact design of the screen will be agreed with and approved by Hann Tucker Associates.

HT: 16378 **24/05/2011**

ST. PANCRAS BOXING CLUB

ACOUSTIC SPECIFICATION FOR

ACOUSTIC LOUVRE SCREENING TO ROOFTOP CONDENSERS

Acoustic louvre screening shall extend:

- continuously around the North, South and West sides of rooftop condenser plant area
- from the roof up to at least150 mm above the highest part of the plant

Performance

The acoustic louvres shall be at least 300mm deep and provide, in their as-installed condition, the following minimum combined sound reduction indices (SRIs)/Transmission Losses when tested in accordance with BS EN ISO 140-3: 1995:

Minimum Sound Reduction Index (dB) at Octave Band Centre Frequency (Hz)							
63	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**
5	7	10	12	14	16	13	12

Construction

The louvre frame shall be constructed from a suitable gauge of galvanised mild steel, or aluminium, supporting louvre blades of like material. The acoustic material in the blades shall be packed to a density of not less than 45kg/m^3 and be inert, rot and vermin proof, non-hygroscopic incombustible mineral fibre. This shall be faced with glass fibre cloth, or other approved infill protection membrane, and retained on the lower blade face by perforated galvanised mild steel or aluminium (not “expamet” or similar derivative) having a minimum thickness of 0.5mm fixed at 200mm (max) centres.

All junctions between the acoustic screen and adjacent structures shall be made good and sealed with a heavy grout and/or non-hardening dense mastic.

The supplier shall ensure that the assembled enclosure is designed and constructed to withstand site operating conditions such as wind and snow loads, etc., as appropriate, and is suitably weatherproofed.

The acoustic media shall not comprise materials which are generally composed of mineral fibres, either man made or naturally occurring, which have a diameter of 3 microns or less and a length of 200 microns or less or which contain any fibres not sealed or otherwise stabilised to ensure that fibre migration is prevented.

Any deviations from the above specification must be agreed by, and confirmed in writing to, Hann Tucker Associates.