
Project:

0360 Hampton Pools
High Street
Hampton
TW12 2ST

Date:

18/09/2024

Report:

**Planning Condition NS05
Sound Insulation Scheme**

Revision:

0

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U0120577 - NS05 SOUND INSULATION SCHEME

**Submission in response to
Condition NS05 Sound Insulation Scheme**

Prior to the commencement of any superstructure works on the development hereby permitted, details of the proposed sound insulation scheme for the parts of the development to be used for the studios and gym use shall be submitted to and approved by the Local Planning Authority. The sound insulation scheme shall be designed to ensure that noise from within the building does not cause a disturbance to surrounding occupiers. The noise measured at one metre from the facade of the nearest noise sensitive premises should not exceed 5dB(A) below the typical LA90 15 min day and shall be at least 5dB below. Further, the measured level at 63Hz, 125Hz and 250Hz shall be at least 5dB below the corresponding background level i.e.

L90@63HZ, 125Hz and 250 Hz 15 min day.

Details should include airborne sound insulation. The developer shall certify to the Local Planning Authority that the noise mitigation measures agreed have been installed. The sound insulation scheme submitted shall also include a noise management plan demonstrating how neighbour complaints about noise will be logged, investigated and actioned. The approved scheme is to be completed prior to occupation of the development and shall be permanently maintained thereafter.

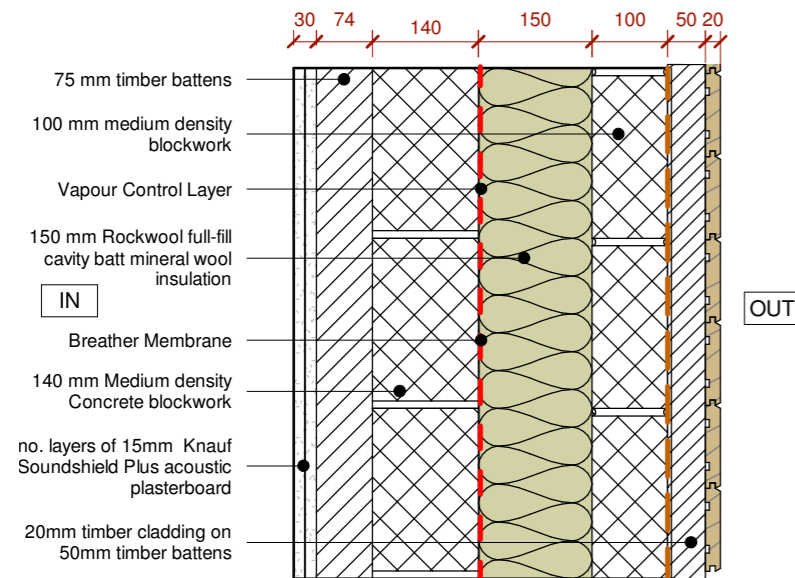
REASON: To protect the amenities of adjoining occupiers and the surrounding area.

APPLICANT RESPONSE:

- Please refer to Max Fordham Acoustic Note Rev. C - Gym and Studio Activity Noise, dated 30/10/2020.
- Please see details of wall, roof and glazing build-ups confirming acoustic performance.
- Please see attached proposed Noise Management Plan by Hampton Pool Trust

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1) External wall Build-up to studios and gym buildings:

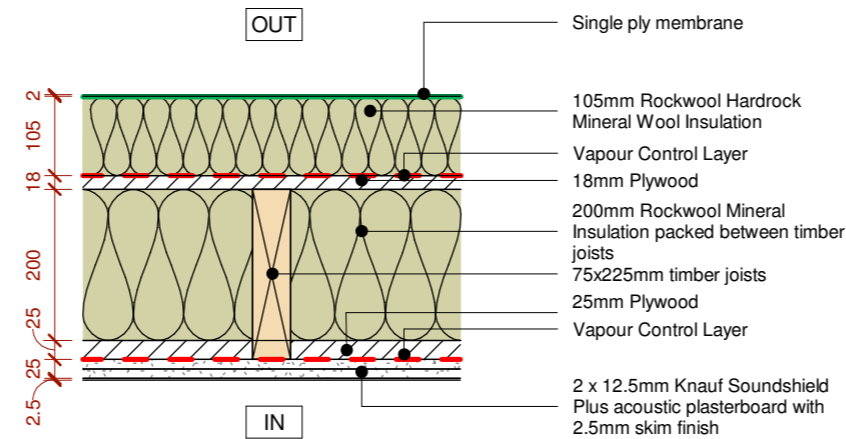


EW-4 New blockwork cavity wall

- Fire Rating: 60mins
- Acoustic Rating: 53dB Rw
- U-Value: 0.14 W/m²K

Exceeds requirement of 47dB Rw stated in Max Fordham acoustic report

2) Roof build-up to studios and gym buildings:



RT-3 New Roof

- Fire Rating: N/A
- Acoustic Rating: 50db Rw
- Required Target U-Value: 0.1 W/m²K

Exceeds requirement of 47dB Rw stated in Max Fordham acoustic report

3) Roof-lights in studio and gym building roof:



Top-hung roof window GPL MK10 2070 by Velux
 Glazing: 4mm glass - 26mm gap - 6mm glass, argon filled.
 Acoustic performance: 37 dB Rw

<https://www.velux.co.uk/products/roof-windows>

Meets requirement of 37dB Rw stated in Max Fordham acoustic report

4) Windows



VELFAC 200 DGU with VELFAC SOUND noise reduction glazing
 Glazing: 8.8mm glass - 12mm gap - 4mm gap, argon filled.
 Acoustic performance: 38 dB Rw

Exceeds requirement of 37dB Rw stated in Max Fordham acoustic report

<https://products-commercial.velfac.co.uk/products/18764/19359/21188>