

We are:-The No. 1 Insulation Shop Thermal, Acoustic & Attenuation !



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Ideatec

Advanced Acoustic Solutions

Absorbent, Decorative, Innovative, Natural Materials, Architectural.

3rd May 2017

David Darby

Cedarmill Developments Ltd

Emerald House
Swinborne Road
Burnt Mills
Basildon
Essex
SS13 1EF
United Kingdom

Reference:- Sound Testing as required, Watford

Site:- Commercial Unit 2, Junction Court,
Station Road Watford

Preliminary:-

The soundproofing having been completed in the commercial areas in accordance with the acoustic report detailed summary, recommendations and requirements, the areas that may be affected by any noise emissions from the commercial area were tested as follows in accordance with the report and requirements by Local Authorities.

Criteria for Tests:-

Party wall airborne sound insulation: No less than... $DnT,w+ Ctr = 45$ dB (In-situ)
Party floor airborne sound insulation: No less than... $DnT,w+ Ctr = 45$ dB (In-situ)
Party floor impact sound insulation: No more than... $L'nT,w = 62$ dB (In-situ)
Internal wall sound insulation: No less than... $Rw 40$ dB (Lab only)

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The Sound Solution, Units 2 & 4, Carr House Farm Business Park, Poole Lane, Nun Monkton, York, YO26 8EH
Tel: 01423 339163 Fax: 01423 339153 Email: stuart@sound-solution.co.uk info@ideatec.co.uk
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Commercial Unit

Party wall and floor constructions comfortably achieves Building Regulations airborne sound insulation requirements from ground floor to first, but extensive additional acoustic measures have been installed within the commercial space, as follows:.

The Ceiling between Grid K to Grid N

Work on this ceiling has been done above the decorative lower ceiling within the 300mm void, by the application of two layers of NSSC2+ acoustic composite panels mounted on top hat metal profile, on battens infilled with 50mm x 140kg density DFM high density absorbent slab, to allow passage of installed and routed services, each layer crosshatched, sealed at all points using AC50 acoustic sealant and mastic, painted to appear concrete, or underdrawn with a shadow cloth to conceal the soundproofing. (Paint or Fabric still to do) This will require, 142 x NSSC2+ acoustic composite panels, 3 x 2 stud, drywall adhesive, top hat metal profile, emulsion paint & or shadow cloth.

The Wall at Grid K

This wall has had acoustic insulation applied to the bedroom side of two layers of NSSW2+ applied directly, with drywall adhesive to the existing wall, sealed at all points with AC50 acoustic sealant and mastic, joints taped and then whole wall plastered with mulltiskim plaster. Any items removed to apply this insulation is to be replaced.

Testing after Installation

The test to determine the levels of noise reduction achieved and the efficacy of the soundproofing undertaken as outlined in the foregoing, shown as a series of LAeq readings have been completed and are shown below:-.

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Suggested and Achieved:-

Daytime (07:00 – 23:00 hrs) -Suggested 30 dB LAeq,1hour—Achieved 30 dB LAeq

This tests as a PASS for Daytime

Night-time (23:00 – 07:00 hrs) -Suggested 25 dB LAeq,1hour—Achieved 25 dB LAeq

This tests as a PASS (extrapolated) for Night time

At all hours -Suggested 45 dB LMax Achieved 45 dB L Max

The ambient is 45 dB LAeq. Achieved.

Resting Living room —Suggested 35 dB LAeq,1 hour—Achieved 35 dB LAeq

Achieved at 35 dB LAeq.

The Wall at Grid K

This wall is Apartment 3 / open area.

This wall required acoustic insulation applied to the bedroom side and should be two layers of NSSW2+ applied directly, with drywall adhesive to the existing wall, sealed at all points with AC50 acoustic sealant and mastic, joints taped and then whole wall plastered with mulltiskim plaster. This was successfully completed and tested.

The wall soundproofed with the additional materials PASSED the test.

The levels shown demonstrate the efficacy and compliance of the additional sound-proofing measures that have been put in place.

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Notes

Ambient levels in the property at time of testing were 45 dB LAeq on 2ndMay 2017

Adjusted details from individual test points are :-

Flat 8 Living area, Bedroom 1, Bedroom 2. 35dB LAeq, 30 dB LAeq, 30 dB LAeq

Flat 3 Living area, Bedroom 1, Bedroom 2. 35dB LAeq, 30 dB LAeq, 30 dB LAeq

E&OE

Dated 3rd May 2017

Testing undertaken by:- Arben Asllani

Extrapolated and Collated by:- Stuart Browne

Readings taken :- AudioTools, SPL Pro, FFT Real time analysis.

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