



Project No. 23552

37 High Street, Cleaton Moor

Acoustic Design Advice

The Property Intellects





Revision	Date	Prepared By	Reviewed By	Comments
V1	22/06/25	Bailey Hoare	Jonathon Hill	First Issue

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1.0 Introduction

Details of Instruction

The Property Intellects has appointed enevo to carry out Acoustic Design Advice of the proposed wall and floor structures at 37 High Street, Cleaton Moor.

2.0 Guidance

Local Authority Requirements

Following the granting of the planning permission (Ref: 4/26/2019/0F1) a number of conditions were put in place by Cumberland Council. Condition 4 outlined below refers to the acoustic performance of the internal walls and floors within the development.

"4. No development must take place until a detailed scheme of noise insulation measures for all residential accommodation has been submitted to and approved in writing by the Local Planning Authority. The scheme must demonstrate that the following criteria will be achieved:

- *Minimum airborne sound insulation (walls and floors between each dwelling) – 56 dB DnT, w*
- *Impact Sound transmission (between floors) – 56 db L'nt w.*

Reason

In order to safeguard the amenities of the occupiers and the details are needed prior to the start of work so that measures can be incorporated into the build and in accordance with Policy DS4 of the Copeland Local Plan 2021-2039."

Building Regulations 2010

The current Approved Document E Resistance to the passage of sound, published by the Office of the Deputy Prime Minister, came into effect in 2003, incorporating amendments in 2004 and 2010.

The document sets out the requirements of the Building Regulations with respect to the passage of sound between dwellings and provides practical guidance on how to achieve the required levels of sound insulation.

Approved Document E covers noise from other parts of the building and adjoining buildings, sound transmission within flats/dwelling-houses, reverberation in common areas of flats/dwelling-houses and the acoustic conditions in schools.

Approved Document E

In the Secretary of State's view the normal way of satisfying Requirement E1 will be to build separating walls, separating floors, and stairs that have a separating function, together with the associated flanking construction, in such a way that they achieve the sound insulation values for dwelling-houses and flats set out in Table 1a of Approved Document E, and the values for rooms for residential purposes of Approved Document E. For walls that separate rooms for residential purposes from adjoining dwelling-houses and flats, the performance standards given in Table 1a should be achieved. Tables 1 and 2 below show the tables defined in Tables 1 and 1b in Approved Document E.

**Table 1**

Dwelling-houses and flats – performance standards for separating walls, separating floors, and stairs that have a separating function

Purpose built dwelling-houses and flats	Airborne sound insulation $D_{nT,w} + C_{tr}$ dB (Minimum Values)	Impact sound insulation $L'_{nT,w}$
Walls	45	-
Floor and Stairs	45	62
Dwelling-houses and flats formed by a material change of use		
Walls	43	-
Floors and stairs	43	64

3.0 Proposed Structures

Proposed Wall

Proposed Wall

1 No. Layer 5mm acoustic fabric finish, 2 No. Layer 15mm acoustic gypsum board (SoundBloc), 25mm resilient channel, 385mm double stud with 100mm Rockwool Insulation, 25mm resilient channel, 2 No. Layer 15mm acoustic gypsum board (SoundBloc), 1No. Layer 5mm acoustic fabric finish.

Table 2
Proposed Wall Acoustic Performance

Wall Type	Recommended Airborne Acoustic Performance, $D_{nT,w} + C_{tr}$	Predicted Airborne Acoustic Performance, $D_{nT,w}$ + C_{tr}
Proposed Wall (Option 1)	56	65

As can be seen from Table 2 above, the proposed wall will meet the airborne sound insulation requirements stated in condition 4 of the planning permission ref: 4/26/2019/0F1.

Proposed Floor

Proposed Floor

1 No. Layer floor finish (assumed to 20mm floorboards), 1 No. Layer 50mm Screed, 1 No. Layer 100mm Concrete, 120mm cavity with 120mm Coltex Insulation, 1 No. Layer 15mm acoustic gypsum board (SoundBloc).

Table 3
Proposed Floor Acoustic Performance

Wall Type	Required Airborne Acoustic Performance, $D_{nT,w} + C_{tr}$	Predicted Airborne Acoustic Performance, $D_{nT,w} + C_{tr}$	Required Impact Acoustic Performance, $L_{nT,w}$	Predicted Impact Acoustic Performance, $L_{nT,w}$
Proposed Floor (Option 1)	56	62	56	55

As can be seen from Table 3 above, the proposed floor will meet the airborne and impact sound insulation requirements stated in condition 4 of the planning permission ref: 4/26/2019/0F1.

Conclusion

The results of the assessment show that the proposed wall and floor structures will meet the requirement set out in condition 4 of the planning permission ref:4/26/2019/0F1. Therefore, the condition can be discharged.