

Subject: Boiler Room Re: CDN/20/0555 (Acoustic Treatment to Upper Floors)



Ryan Swales <ryan@rs-acoustic.co.uk>

Wed, 9 Dec, 15:06 (20
hours ago)

to Jim Seymour

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Hi Jim

Further to our previous telephone conversation, it is understood that MCC have raised a query regarding potential flanking noise transmission at the above property.

It is anticipated that flanking noise transmission on the upper floors will not be a problem for the two reasons outlined below. I therefore do not feel that acoustic remedial work is required with regard to the potential for flanking noise.

1). The flanking wall/front elevation is circa 300mm thick double-leaf brickwork with solid plaster. The density of this construction will be in the region of 1750 - 1900 kg/m³. Flanking noise transmission via external walls can be an issue where the density of the flanking wall is below circa 1,200 kg/m³. In this instance, the density is considerably higher.

Taking into consideration the age of the building, there will be no cavity between the two leaves of brickwork. Flanking can be a potential problem where there is a substantial cavity (e.g. 75-100mm as with new-builds) and where there is no cavity insulation. This doesn't apply in this instance.

2). The assumed noise levels in the assessment are based on the highest measured sound levels from the ground floor bar area (i.e. 84 dB LAeq). However, the upper floor is simply a storage area and therefore the actual noise levels on the upper floor will be significantly lower (circa 10 to 20 dB lower) than those generated on the ground floor. Therefore, the sound energy that will be transmitted directly from the first floor storage area onto the horizontal flanking wall that is common to both properties will be relatively low. The assessment is based on a worst-case scenario, since it is not currently possible to measure typical noise levels in the storage space, whilst the ground floor is at full capacity.

May I also point out that the recommended acoustic wall lining and anticipated airborne sound insulation performance go well above that which is required under Part E of the Building Regulations.

Please feel free to forward this email directly to MCC for consideration.

I would be happy to meet on-site with the EHO involved if needs be, to discuss the recommended acoustic treatment to the party wall and any implications regarding the construction and/or flanking.

I think it's worth noting that I have 20 years experience specialising in Building Acoustics, including specifying and testing remedial work.

Kind regards

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