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By e-mail only to ralph@paulbutlerassociates.co.uk

Dear Ralph

122541/FO/2019 - HILTON HOUSE AND CDN/19/0167 – Gym Floor

The following letter summarises the performance requirements and current proposals for the basement gym floor for the above development.

It is understood that the EHO has *“requested details for the matting types for the gym from those previously identified as being suitable”*.

The basic floor build-up in the gym area is proposed as follows:

- existing ashfelt;
- epoxy primer;
- latex screed;
- vinyl.

Previous vibration transmission measurements undertaken by Peak Acoustics Ltd identified a range of matting products suitable for use in weights areas, all with a minimum combined overall total matting thickness of 38mm.

Current proposals for the floor coverings in the gym are as follows:

- 15mm ‘BLKBOX anti-slip’ tile: <https://www.blkboxfitness.com/pages/anti-slip> throughout fitness activity areas;
- 30mm ‘SPORTEC Style’ tile: <https://www.kraiburg-relastec.com/sportec/en/style/> in addition to the BLKBOX product in weights areas (approximately 20% of the fitness floor area).

The BLKBOX tiles proposed as a base layer in the gym are 15mm thick rubber. It is therefore considered likely that any additional suitable-for-use weights matting product with a minimum thickness of 23mm will be more than adequate to provide suitable separation from the structure of the building so as to avoid the risk of vibration transmission from weight-drops in these areas. The 30mm ‘SPORTEC Style’ tile proposed meets this specification.

We trust this is of assistance. Please do not hesitate to contact the undersigned should you have any queries regarding the above.

Yours sincerely

Mary Day BEng (Hons) MIOA

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