

Club Sound Proofing

Oscar Acoustics Solves Noise Problems at Gillingham FC



Gillingham Football Club's Priestfield Stadium Blues Bar

With Blues Bar music levels over 100dB(A), some serious club sound proofing was needed.

The ceiling of the Blues Bar has a very effective acoustic barrier provided by SonaCel fixed to a concrete plank soffit. The resistance to the passage of sound is RW 72dB.

SonaCel stud frames and 2x12.5mm plasterboard ceiling were **installed** by the **builder** then a 2 man **Oscar team** filled the ceiling cavity with **Celbar** fibre flock at 55Kg/m³, supporting columns and walls received similar treatment to provide a barrier to flanking noise. Result, **superb club sound proofing!** No breakthrough of base beat to the function room directly above.



With Blues Bar music level of over 100dB(A) NR55 is achieved in the function room directly above, a noise reduction better than 50dB between floors.

Project architect, Mark Carter FRIBA, stated, "The results are everything that was promised by Oscar Acoustics, absolutely outstanding!"



The Great Hall

Club sound proofing

SonaCel acoustic barrier walls protect the neighbourhood from late night party noise. **SonaCel** dry lining to walls and ceilings achieves **high performance** at low mass ensuring that light weight steel structures and fast build principles can achieve high levels of noise insulation.

The local authority required noise breakout (including beat music) to be at street ambient noise levels.

The architect specified that the club sound proofing to the new venue should be:

- ✚ A pleasant environment without boom or reverberation where clarity of music, including heavy beat music can be enjoyed.
- ✚ Sufficient club sound proofing that no cross talk between the ground floor Blues Bar and first floor function rooms.
- ✚ Sufficient sound proofing that no cross talk to second floor offices from the rooms below.
- ✚ Sufficient club sound proofing that noise levels in adjacent Redfern Avenue to the side of football ground are to remain at virtually ambient noise levels, so that local residents are not troubled by noise.

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The Piano Bar, adjoining the Great Hall

Article by D.Mack of Oscar Acoustics. For more advice on Acoustic Solutions and noise Insulation go to <http://www.oscar-acoustics.co.uk>