

Sports Hall Acoustics

Acoustic spray-on wall/ceiling coating controls noise reverberation

Sports hall acoustics are typically **reverberant** due to a combination of large areas of **hard block walls**, corrugated steel **ceilings** and wood **floors**. To control a sports halls acoustics a large amount of acoustically absorptive material has to be applied around the hall. Clearly a **spray-on material** has a distinct **advantage over acoustic panels** in this situation.

Oscar Acoustics are **specialists** at controlling sports **hall acoustics**. Each project is taken as a completely separate case. Prior to installation, acoustic measurements are taken and with purpose designed software computers create a sports hall acoustic model. This enables Oscar to calculate which areas require treatment to achieve the desired results. The sheer size of the project in the photographs, determined that



acoustic treatment



not only had to be applied to the ceiling in certain areas, but due to the height of the **ceiling**, the **walls** also needed treatment to prevent sound polarisation.

Two very different **products** were **used** to control this sports halls acoustics. SonaSpray K-13 acoustic decorative finish in white was applied to the centre area of the corrugated steel ceiling, **SonaSpray** K-13 in green was applied to the upper section of the steel clad walls, and SoundBlox were used at low level.

SoundBlox acoustic building blocks are the perfect product for controlling sports hall acoustics at **low frequency**, they **absorb** both direct and reflected sound by

using Helmholtz resonator principles. The selection of blocks along with the use of absorptive cavity fillers for high frequency attenuation enables Oscar to adjust absorption characteristics to suit the requirement. They are also designed to be laid along with standard masonry blocks and can create complete walls or attractive contrasting panel effects. Once installed, they are resistant to impact damage and require virtually no maintenance.

Oscar Acoustics has a range of products to suit most projects, with attractive spray applied **acoustic decorative finishes** from textured to plaster smooth, **plus** a range of **SoundBlox** and recently introduced are attractive acoustic panels to compliment the other products, Oscar has the answer to **perfect sports hall acoustics**.

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