

Journal Article

**The Refurbishment of the Orchestra Rehearsal Room of the Great Theater of Liceu**

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**Abstract**

The original Orchestra Rehearsal Room of the Great Theater of the Liceu, inaugurated in October 1999, was sufficient to accommodate a medium sized orchestra but it was not suitable for a large orchestra because of its small volume and because the sound produced by the musicians was too loud. This initial deficiency has been corrected in many aspects by applying a new acoustic concept. We developed a 3D-Grid diffuser which resulted in a very significant increase in Reverberation Time and increased the clarity of communication between players and the subjective size of the room volume.

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