



Basotect® for optimal acoustics in musical theaters

Case Study

The technical equipment of the new “Musiktheater” in Linz, Austria is unique and great attention has been paid to the opera’s spatial acoustics. The acoustics consultant was Karl Bernd Quiring from Quiring Consultants, who not only possesses the necessary physical-technical know-how that also includes related measurement technology, but as a trained conductor also a musical ear. The acoustics expert from Tyrol has been looking after the optimum spatial and structural acoustics throughout the opera since the detailed planning phase.

Special acoustic cube absorbers of unique dimensions and color have been developed to ensure perfect acoustics that also extend to the large orchestra rehearsal hall. The cubes are made of sound absorbing Basotect® and have been produced and installed by the audiotec business unit of the Linz-based Eurofoam GmbH on the basis of suggestions prepared by the ArchitekturConsult and archinauten studios and Quiring Consultants. All in all, Eurofoam has suspended 15 audiotec cube absorbers from the ceiling construction at various heights, all made of BASF’s specialty foam.

The special challenge is the creation of ideal acoustic preconditions in a rehearsal room of these dimensions, which can also be used as a concert hall. Therefore, the rehearsal room not only contains visible acoustics systems, but also hidden devices such as bonded and sound absorbing audiotec acoustic sheets on the underside of the musicians’ podium. Karl Bernd Quiring and the chief conductor Dennis Russell Davies are highly satisfied with the performance of Eurofoam audiotec’s acoustic systems.

The Eurofoam audiotec cube-shaped absorbers made of Basotect® are ideal for retrofitting to a building. Also, the sound absorbing material can help in rehearsal rooms, recording studios and operas, as well as, of course, in meeting rooms and swimming pools. Eurofoam also offers purpose-made products for (heavy) industry.

