

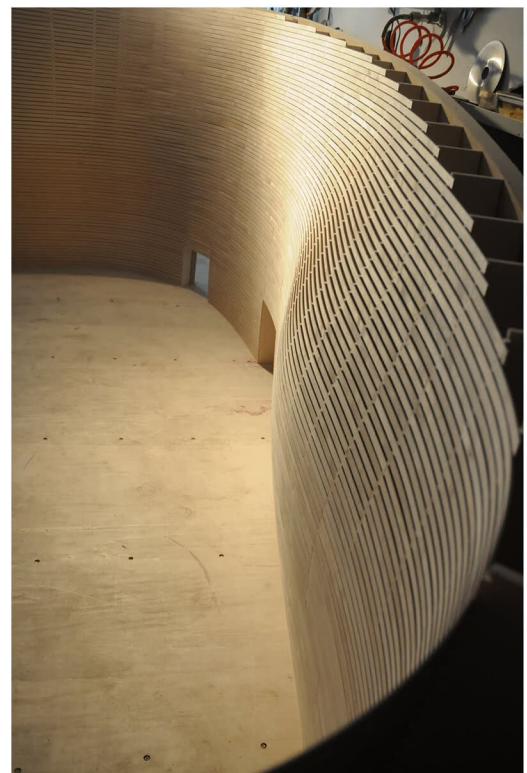
AUDITORIUM AND REHEARSAL ROOM ACOUSTIC DESIGN

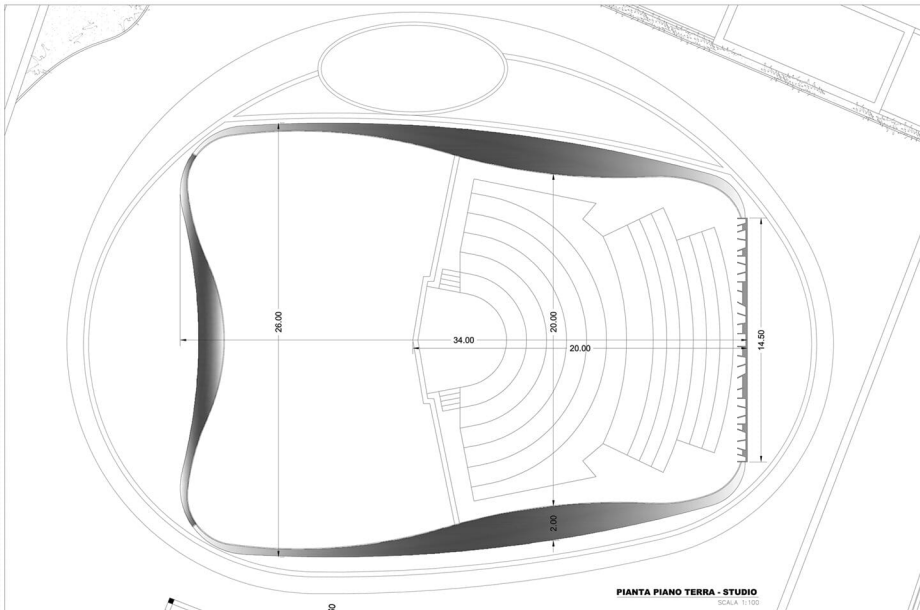
A concert hall, where a wind orchestra is about to perform. The task in this concert hall was to enhance the sound of a 104-member wind instrument orchestra. The constraints were to leave the "ovoidal" concrete wall architecture untouched.

Lighting design with the involvement of Ingo Maurer, created a unique central light with scattering sound performance.



The acoustic phenomenon within a building can be studied through 2 simulation methodologies based on:- the optical principle and the wave equation, but in this case, we also used a realistic model 1:10 in wood.





The non conventional solution was to use a violin shape, with wood wave surface. This reduced the focus and increased scattering.

The solid wood surface was formed by a linear xlam wood, and several ribs to create the wave shape and tension in the wood to be a resonator and at the same time sound absorber.

Architect: Pietro Ianero
Interior architect: Laura Montanini
Light design: Ingo Maurer

