



Bard College Performing Arts Center Annandale on Hudson, NY

This new performing arts complex includes a new 100,000 sq ft building containing an 800-seat multi-purpose performing arts hall and a 200-seat concert hall, a lobby/gathering area, box office, stage and performer support spaces, security office and loading dock. The project also includes drama and dance rehearsal studios.

The main theater is a multi-purpose hall that required a completely enclosed acoustical shell consisting of acoustical wall towers and ceiling. Supply air system was integrated into the acoustical wall towers to make it possible for quick connection of supply air flexible ducts into the main duct when the acoustical shell mode is activated.

Computational Fluid Dynamics analysis were performed for air distribution in the main theater to determine optimal environmental conditions (temperature and air velocity). This project is the first newly constructed performing arts center in the US to incorporate geothermal heating/cooling systems. In this project, a water source heat pump system of below-ground piping and wells is supplemented by a chiller system so that air delivered to the stages and houses is cool and dry enough to ensure performers' and audiences' comfort. Heat generated by these chillers is also relieved geothermally.

Architect: Gehry Partners

