



Museum Plaza Louisville, USA

Architect

Rex, New York

Acoustics

DHV, Project manager: L.C.J. van Luxemburg
(Level Acoustics, Principal DHV)

Realization

2006 - 2009

Project description

Rex architects, is designing a new 675 ft high building in Louisville, Kentucky that houses functions as retail, offices, a hotel, luxury and loft houses, spaces for the university and a museum. The building is projected along the riverside, separated from the river by the River Road.

From an acoustic perspective the functions integrated in the building are not unusual. The combination of functions and the acoustic quality of the building aimed at makes the design asking to be treated special. Attention will be paid to the sound insulation of the facades, as traffic on Main Street and River Road is dense. Also the sound insulation between the different functions is an issue. In the hotel building and luxury housing and lofts sound insulation between hotel rooms and houses is of special interest. With respect to the retail function, noise disturbance to the hotel and housing must be prevented. Noise generated by building services may not cause any nuisance. The City code with respect to sound issues must be met.

With respect to the offices and university it is obvious that meeting rooms, instruction rooms, conference rooms and lecture halls will get some special acoustic attention, as is the case for open work spaces. For the museum the acoustic climate will be balanced with the architectural concept. The concept shows a museum that is the heart of the building. As a consequence the museum space has to be very flexible, with the possibility and quality to be used in all kind of different settings. The acoustic quality must meet the specifications with a single gallery as with crossing galleries.