



FULL THEATRICAL SPACE

OFFENBACH THEATRE

Offenbach's existing 700-seat theatre was originally a Synagogue with circular plan form and a domed roof. After World War II, the Synagogue was converted into a theatre with a small fly tower. A producer leased the theatre for long runs of Broadway-style musicals and increased the seat count to 1100. Acoustic Distinctions performed a study on the acoustics, sightlines and seating of the existing theatre and provided recommendations appropriate to the new use feasible within the constraints of the existing structure. Our listening tests indicated areas at the front of the theatre with severe intelligibility problems. The measured impulse response showed a strong late energy return to this area. Computer modeling with Acoustic Distinctions' IMAGES programs, predicted a similar echogram (see comparison) and indicated the source of this late energy. In developing the renovation plans, changes to the wall shaping were made to eliminate these late reflections.

CLIENT

Offenbach Musical Theatre

LOCATION

Offenbach am Main, Germany

PROJECT TYPE

Renovation

COMPLETE

1995

COST

\$65 M

SEAT COUNT

1,100

ARCHITECT

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SCOPE

Acoustics
Auditorium Planning

