

Film Forum Movie Theater

New York City, USA



Case Study



Main Contractor

Benchmark Builders Inc.



Structural Engineer

Murray Engineering



Acoustic Consultant

Marshall / KMK Acoustics, Ltd.

OVERVIEW

Film Forum is a nonprofit movie theater in Lower Manhattan, New York City. It is the only autonomous nonprofit cinema in New York City, and one of the few in the United States.

With the addition of a fourth theater to the existing venue, quality sound isolation became even more important. The former loading bay of the building was converted into a 109-seat theater and a mechanical equipment room adjacent to the theater. The \$6 Mio. renovation project also included updated HVAC system and refurbished interior finishes for the venue.

Stravifloor Jackup

- Jack-up floating floor system with reinforced steel boxes cast into concrete
- Once dry, the isolated slab is raised off the structure to the required void depth



SOLUTION

With [Stravifloor Jackup](#) boxes, CDM Stravitec provided a vibration isolation design that helped the client maximize the acoustic performance in the venue, while reducing costs from the original design. Stravifloor Jackup was designed to a resonant frequency of 4.5Hz for the 4" concrete slab, with an air gap of 1" to the subfloor. CDM Stravitec assisted the design team and contractor throughout all phases, from pre-construction to shop drawings and site installation.

AT A GLANCE

BENEFITS

- Allows for larger spans and fewer support points than traditional jack-up systems
- Cost-effective solution
- Reduces the risk of acoustic bridging comfort

